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NAS PENSACOLA
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REMEDIAL INVESTIGATION ADDENDUM FOR OPERABLE UNIT 2 (OU 2) VOLUME 1 OF 4

NAS PENSACOLA FL

7/30/2004

ENSAFE, INC

REMEDIAL INVESTIGATION ADDENDUM

OPERABLE UNIT 2

NAVAL AIR STATION PENSACOLA

Contract No. N62467-89-D-0318

Contract Task Order 059

Volume I of IV

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina

Prepared by:

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July 2004

ENSAFE

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July 30, 2004

Commander
Attn: ES31 Mr. Bill Hill
SOUTHNAVFACENGCOM
2155 Eagle Drive
North Charleston, South Carolina 29406

Subject: Delivery of Report, Final Remedial Investigation Report Addendum
CTO-059, Categories 2 and 3, Naval Air Station Pensacola, Florida
Contract # N62467-89-D-0318, CLEAN II

Dear Mr. Hill:

EnSafe Inc. is pleased to submit one printed copy of Volume I of the Final Operable Unit 2 (Sites 11, 12, 25, 26, 27 and 30 Remedial Investigation Report Addendum for the Naval Air Station Pensacola. Also enclosed are two "Living CDs" containing supporting documents for the Operable Unit 2 decision process and an electronic copy of the RI Addendum. Responses to EPA and FDEP comments are also enclosed. Volumes II, III, and IV did not change from the previously submitted versions and were not reproduced. However, errata cover pages for those volumes are provided with the enclosure.

If you should have any questions or need any additional information, please let me know.

Sincerely,
EnSafe Inc.

Allison L. Harris
Task Order Manager

Enclosures: (Operable Unit 2) Final RI Report Addendum, Volume I, NAS Pensacola

cc: Ms. Katie Stohs, Code ACQ22 SOUTHNAVFACENGCOM without enclosure
Mr. Greg Campbell, NAS Pensacola — 2 printed and 2 CDs
Mr. Greg Fraley, USEPA Region IV — 1 printed and 1 CD
Ms. Tracie Vaught, FDEP — 1 printed and 2 CDs
Mr. Tom Dillon, NOAA — 1 printed and 1 CD
Mr. Greg Wilfley CCI — 1 CD
Mr. Gerry Walker, TetraTech NUS — 1 CD
EnSafe Inc. CTO-059 without enclosure
EnSafe Inc. Knoxville file — 1 CD
EnSafe Inc. Pensacola — 1 CD

Navy Response to USEPA Comments on the Final OU2 Remedial Investigation Report Addendum, NAS Pensacola
April 2004

USEPA Comment 1:
Background information is not developed and presented clearly in this document and would be a helpful comparison for data interpretation and understanding of operable unit contamination, fate, transport and extent. Please expand on the area background and history as well as the geology so the reader can build a conceptual understanding of a site model.

Response:
The intent of the RI Addendum was to be a companion document to the RI, not a stand-alone document. The requested information is included in the original RI. The original RI will be included on a "Living CD" that will contain all supporting documentation for OU2; this CD will be enclosed with submittal of the Final Addendum.

USEPA Comment 2:
Several comparisons are briefly made to 1993 and 1995 data. First of all, the comparisons should be expanded, and shown in mapped figures in order to present changes in previously identified contaminant plumes. This will show changes in plume location and may show any possibility of changes in direction or fate and transport over ten years. Secondly, the text points out the accuracy of 1995 data over the 1993 data, but does not build on this point in data analysis. Please revise text to incorporate these concerns.

Response:
A comparison between mapped extents should be possible through a side-by-side review of the Addendum compared to the RI. The original RI will be included on a "Living CD" that will contain all supporting documentation for OU2; this CD will be enclosed with submittal of the Final Addendum. Expansion of the text to explain the increased accuracy of 1995 data over 1993 data will be included in the Final Addendum.

USEPA Comment 3:
Please include section on groundwater elevations in which recharge to surface locations are evaluated and identified clearly in a mapped figure. This will help to show possible transport pathways for groundwater contamination.

Response:
Surface water elevations were not collected during the fieldwork execution of the RI Addendum. However, they were collected during the execution of the original RI. Additionally, extensive groundwater and surface water elevation data were collected during the data collection phase of the Navy's effort to construct a base-wide numerical groundwater model. Finally, all data collected during the Addendum show the typical patterns in the piezometric surface of gaining stream conditions. All of this data indicate that groundwater heads remain substantially above surface water heads during mean tide conditions. The only time that this condition might reverse is under extreme storm conditions, such as a hurricane surge. From an assessment perspective for remediation evaluation, it is a

conservative assumption, and one that should be pursued based on all data collected to date, that all groundwater discharges to proximal surface water bodies.

SPECIFIC COMMENTS:

Comment 1:

Page 1, Section 1.0, paragraph 2: Text suggests that Figure 1 shows location of OU2. Figure 1 is actually a layout for OU2. Please include a figure to show location of OU2 within base limits and nearby land/water features. This presentation is important for the reviewer to gain a visual concept and understanding of the area before presenting the site layout. Please show the actual boundaries of OU2.

Response:

The intent of the RI Addendum was to be a companion document to the RI, not a stand-alone document. The requested information is included in the original RI. The original RI will be included on a "Living CD" that will contain all supporting documentation for OU2; this CD will be enclosed with submittal of the Final Addendum.

Comment 2:

Page 3, Section 2.0: Section is meant to actually provide a summarized background, historical use and site geology for the operable unit and its encompassing sites in order to give the reviewer background knowledge of the area before presenting data. The reference to the previous RI report from 1995 is not sufficient, since it is not easily accessible for the reviewer. Please expand this section to include a background history for each site, area geology and historical groundwater flow, as well as results and figure-aided plume identification from the previous 1993 and 1995 data.

Response:

The intent of the RI Addendum was to be a companion document to the RI, not a stand-alone document. The requested information is included in the original RI. The original RI will be included on a "Living CD" that will contain all supporting documentation for OU2; this CD will be enclosed with submittal of the Final Addendum.

Comment 3:

Page 4, Section 3.2, paragraph 2: Text states that "four locations previously scheduled for groundwater resampling had been demolished. As a result, four new monitoring wells were installed to obtain the groundwater samples in those locations. These are designated as 11GS16, 12GS17, 25GS10, and 30GS175." The demolished wells are never identified, and when data is presented in tables, the corresponding data from demolished wells are never paired with data from the new replacement well. Since these were replacements, a comparison of these data should be included in text and tables. In consequence, data from each of the new wells would be included next to the original well exceedences from 1993 and 1995. For instance, is seemed there are no metal exceedences in 2003 for wells 12GS17, 25GS10, and 30GS175, since they are not included in table 4. It would be of interest to show

this next to the original well exceedences in which a decreasing trend in concentration would result-if this is, in fact, the case. Please include.

Response:
This information was misstated in the draft version of the Addendum. Actually only two wells were discovered to be demolished (25GS04 and 30GS029, replaced with 25GS10 and 30GS174 respectively). Historical data from the demolished wells have been added to the tables and incorporated into the text. The other two new wells (11GS16 and 12GS17) were installed to monitor new areas where it was felt there were data gaps.

Comment 4:
Page 8, Section 5.0, paragraph 1: Text states, "Only current exceedences were mapped." All figures in this presentation would benefit from expanding the small exceedence tables in each figure to include previous exceedences. This would provide a better understanding of the area exceedences. It would help to show if there are changes in plume locations, as well as show increasing and decreasing trends in a conceptual site model. Please include.

Response:
The intent of the RI Addendum was to be a companion document to the RI, not a stand-alone document. The requested information is included in the original RI. The original RI will be included on a "Living CD" that will contain all supporting documentation for OU2; this CD will be enclosed with submittal of the Final Addendum.

Comment 5:
Page 11, Section 5.1, Feasibility Study Question 1: Text states, "There has been a downward trend in soil contamination with respect to metals." This should be modified to include, "with the exception of chromium measured at location 011S001506."

Response:
This statement is modified per the comment.

Comment 6:
Page 11, Section 5.1, Feasibility Study Question 2: Text states, "decreases are noted for locations ..." This is not true, as 27GS10 shows increase in cadmium, 30GS27 shows increase in chromium, 30GS103 shows increasing lead. Please revise. Text goes on to note increases in only 3 wells. It should also include cadmium for 11GS15, Cadmium and lead for 11GS07, cadmium for 12GS08 and 12GS09, lead for 30GS06 and 30GS103. Barium slightly increases for 11GS13. Also increases from 1995 concentrations were noted for cadmium in 12GS10, chromium in 30GS27, and barium in 11GS13, but these exceedences were lower than in 1993. Since page 2, section 1.2, paragraph 1 suggests that the 1995 values are more accurate, this distinction is important to include.

Response:
Again, these statements were intended to provide a generalized status of the contamination in groundwater, and used the number of exceedances per location to form those statements. To eliminate future confusion and to aid in the interpretation of the data, the Final Addendum will elaborate on 1) the number of locations that exhibited fewer or higher number of exceedances, and 2) for those locations that exhibited an exceedance in 2003, whether those exceedances have gone up or down from previous sampling. This should adequately address the above comment.

Comment 7:
Page 21, Section 5.4, Feasibility Study Question 2: The distinction between changes in concentrations between the 1993 and present vs. 1995 and present data is made, but it is not noted whether the difference from 1995 to present data is more valid due to the accuracy of testing in 1995 vs. 1993. Please include.

Response:
The data from 1995 and the data from 2003 are considered to be equally valid. The USEPA and FDEP-approved comprehensive Sampling and Analysis Plan included the bailer methodology for sample collection in 1993, but was changed to incorporate low-flow sampling techniques for the 1995 and later samplings.

Comment 8:
Page 39, Section 6.0, Metals, paragraph 1: Text note two exceedences in nine soil samples. Chromium exceeds criteria in two locations and arsenic at one of these locations. Please revise.

Response:
Comment is noted and is addressed in the Final.

Comment 9:
Page 39, Section 6.0, Metals, paragraph 2: Text states that 10 locations show decreasing concentrations and three show increases. Please re-evaluate this statement, as it appears there are several more increasing concentrations for groundwater contaminants in sampled wells. This reviewer counts several increases in a single groundwater contaminant for several wells, not counting iron manganese and aluminum. Also, per comment for page 4, the exceedences for replacement wells are not compared to old demolished wells. Please include.

Response:
This statement pertained to the total of dissolved metals load in the samples from those locations. To eliminate future confusion and to aid in the interpretation of the data, the Final Addendum will elaborate on 1) the number of locations that exhibited fewer or higher number of exceedances, and 2) for those locations that exhibited an exceedance in 2003, whether those exceedances have gone up or down from previous sampling. This should adequately address the above comment.

The comparisons of new well data to the two demolished wells is also made in the Final.

Comment 10:
Page 39, Section 6.0, SVOCs, paragraph 1: There are 18 exceedences in 7 locations, not 16 in 6 locations. Please revise text (twice in this paragraph) per comment below for table 14.

Response:
Comment is noted and is addressed in the Final.

Comment 11:
Page 40, Section 6.0, VOCs, paragraph 1: There are 47 exceedences in 22 locations, not 42 in 22 locations. Please revise text per comment below for table 17.

Response:
Comment is noted and is addressed in the Final.

Comment 12:
Page 40, Section 6.0, VOCS, paragraph 2: Text comments directly on comparison from 1993 data to present. Please include analysis for the comparison to 1995 data, since it was deemed "more accurate" due to low flow measurement techniques.

Response:
The data from 1993 with regard to VOCs is not suspect, it is the 1993 data with respect to metals. At any rate, the direct comparison to 1993 data was made because all of the 2003 locations were sampled also sampled in 1993. The 1995 event only sampled a select few locations. An additional analysis regarding trends of exceedances is made in the final addendum, and it includes a comparison of 2003 data to all 1993/95 data.

Comment 13:
Table 2: Tables notes state "Bold indicates an exceedence of higher SCTL or NASP reference." This is not clearly discussed in text. It seems an exceedence should be marked by the lower of the two standards in order for risk criteria to be upheld. Please comment and revise if necessary.

Response:
Under CERCLA, cleanup goals will not be lower than background (in this case NASP reference). There are some NASP reference values that are higher than the CTLs; hence the use of the higher of the two benchmarks for defining exceedances.

Comment 14:
Table 4: Tables notes state "Bold indicates an exceedence of higher SCTL or NASP reference." This is not clearly discussed in text. It seems an exceedence should be marked by the lower of

the two standards in order for risk criteria to be upheld. Please comment and revise if necessary.

Response:
Under CERCLA, cleanup goals will not be lower than background (in this case NASP reference). There are some NASP reference values that are higher than the CTLs; hence the use of the higher of the two benchmarks for defining exceedances.

Comment 15:
Table 4: Well 11GS07- second result column year is not included. It is assumed that this is 2003. Please revise.

Response:
Comment is noted and is addressed in the Final.

Comment 16:
Table 5: Sample 030S012304- Please change sample year from 2004 to 2003.

Response:
Comment is noted and is addressed in the Final.

Comment 17:
Table 14: Sample 30GI111 is confused with 30GS111, which is not included. Change 30GI111 to 30GS111. Then add a line for 30GI111 where 1993 exceedences =2, 1995=2, and 2003=2 where 1,4- dichlorobenzene and 2,4- dichlorophenol decrease.

Response:
Comment is noted and is addressed in the Final.

Comment 18:
Table 17: Sample 27GS18- result column year missing.

Response:
Comment is noted and is addressed in the Final.

Comment 19:
Table 17: sample 30GI111- result column years confused, 1992 and 1993 instead of 1993 and 1995. Please revise. Once changes are made, there are 18 exceedences in 7 locations.

Response:
Comment is noted and is addressed in the Final.

Comment 20:
Table 18: 2003 exceedences for 30GI111and 30GS111 should be 3 instead of 2 where benzene increases. 2003 exceedences for 30GS06 should be 3 instead of 2 where benzene decreases.

Table 17 indicates 30GI170 was not analyzed in 1995. 1995 exceedences for 11GM47 should be 4 instead on 3. 1995 data are missing from table 17 for 27GS18 where this table suggests there were 2 exceedences. Table 18 should also include 11GM28 where benzene decreases, and 11GI10, where 1,2 dichloroethene slightly decreases. Once changes are made, there are 47 exceedences for VOCs in groundwater in 22 wells.

Response:
Comment is noted and is addressed in the Final.

Navy Response to FDEP Comments on the Final OU2 Remedial Investigation Report Addendum, NAS Pensacola
April 2004

FDEP Comment 1:
Figures which demonstrate Soil and groundwater exceedences do not clearly state what unit of measurement is used for the contamination concentrations. Please clarify by putting the unit of measurement in the legend.

Response:
Comment is noted and is addressed in the Final.

FDEP Comment 2:
This report refers to several instances where bulk soil samples were collected and sampled for SPLP. When the bulk soil sample was analyzed it did not have an exceedence for a certain contaminant of concern (COC) but the same COC was found in the groundwater. This is going to happen when bulk samples are used when sampling for SPLP. Please clarify the procedure used when collecting the bulk sample(s). Explain how many samples were taken per sample and how diluted the sample was prior to submitting for analysis.

Response:
There may be some confusion with regard to the term "bulk sample" used in the report. All "bulk" soil samples were collected from a specific two-foot interval per the CSAP for NAS Pensacola, with the last two digits of the sample ID designating the total depth of collection. From each two foot interval targeted for sampling, Encores were used to separate a small portion for VOC analyses, and the remaining material was composited. This was then split into two equal parts –one was designated the "bulk" sample and was sent to the lab for totals analysis, and the other was sent to the lab for SPLP analysis. This methodology was incorporated in the plan for resampling that was reviewed and approved by the Tier 1 team. Clarification has been added to the soil sampling methodology in the final addendum.

FDEP Comment 3:
When discussing the groundwater to surface water discharges please make sure that site 41 is referenced as well.

Response:
Site 41 are the NASP wetlands; wetlands included in this Site (5A and B, 6, and 64) are specifically cited in the addendum.

FDEP Comment 4:
Page 11, 5th paragraph: The questions that states, "*Are there continuing problems with the groundwater to surface water pathway?*" needs to be further addressed. Monitoring Wells 30GS123, 30GI111 AND 30GS111 have metals contamination in the groundwater and they are located adjacent to Wetland 7. This could serve as a potential pathway from groundwater to surface water.

Response:
Comment is noted and is addressed in the final; these wells actually lie adjacent to Wetlands 5B and 6.

FDEP Comment 5:
Page 40, 3rd paragraph, Conclusions on SVOAs Section: Wetland 5B needs to be added to this paragraph due to metals contamination found in the groundwater in MWs 30GI111 and 30GS111.

Response:
Comment is noted and is addressed in the final.

FDEP Comment 6:
Page 41: Considering Natural Attenuation as a remedial alternative for this site can not be done per 62-780.690 F.S. which states:

"Fate and transport models as defined in Rule 62-780.610, F.A.C., may be utilized to support the appropriateness of natural attenuation with monitoring. Natural attenuation with monitoring is allowable provided the following criteria are met: (c) Contaminants present in the groundwater above background concentrations or applicable CTLs are not migrating beyond the temporary point of compliance or migrating vertically, which may contaminate aquifers or surface water resources or result in increased site rehabilitation time."

The groundwater contamination found in the monitoring wells adjacent to surface water bodies, (Wetlands 7, 6, and 5A) clearly demonstrate a groundwater to surface water discharge. This report states that this discharge is taking place for metals, volatiles and Semi-volatiles. The following monitoring wells are located adjacent wetlands 5B, 6, and 7 and exceed Florida's Surface Water Standards for metals:

MW11GI10
MW11GS09
MW11GS13
MW30GS111
MW30GI111
MW30GS18
MW20GS126

The following monitoring wells are located adjacent to wetland 5B and exceed Florida's Surface Water Standards for Semi-Volatiles:

MW30GI111

The following monitoring wells are located adjacent to wetland 5B and exceed Florida's Surface Water Standards for Volatiles:

MW30GS111
MW30GI111

Response:
Comment is noted and is addressed in the Final. As the RI Addendum does, the FS will recognize that deleterious groundwater to surface water discharges are occurring, and will take that into account in the evaluation of appropriate remedial actions. This will be re-iterated in the RI addendum. As a seed for initial thought, some combination of remedies may be employed for best results at this site; for example, proactive remediation on the plume frontal edges near the groundwater/surface water interface, and natural attenuation or enhanced natural attenuation on the internal portions of the plumes.

FDEP Comment 7:
Page 41: The department concurs with the recommendations:

To incorporate this information into a Feasibility Study for Operable Unit 2.
The Department concurs with addressing the areas adjacent to MWs 30GS111 and 30 GI111 as a separate site. However, due to lack of information pertaining to groundwater contamination this report should state that the area to be assessed is adjacent to Wetland 6 not located to the west of Wetland 6.

Response:
Comment is noted and is addressed in the Final.

FDEP Comment 8:
Figure 5: Cannot find MW11GI114 that is adjacent to the northern edge of Wetland 6 on this figure, please correct.

Response:
You are referring to MW11GI14; it is located at the northern terminus of Wetland 6 on the figure.

FDEP Comment 9:
Figure 6: Soil sample location LF-12 has a sample ID of 011LSF1206 and so does 11GI15, this needs to be corrected.

Response:
Comment is noted and will be addressed in the Final.

FDEP Comment 10:
Table 4: In the body of the table under the surface water standards an asterisk is shown next to some of the standards and it is not explained in the footnotes, please correct.

Response:
Comment is noted and will be addressed in the Final.

FDEP Comment 11:
Table: I could not find monitoring well MW 012GS00803 on Figure 5, please correct this error.

Response:
The well is 12GS008, and it is on the western side of Site 12 in Figure 5. The 03 at the end of the sample ID refers to the third time it has been sampled.

FDEP Comment 12:
Table 13 and Figure 4: I could not find MW 11GS47 on Figure 4 please correct.

Response:
Table 13 provides groundwater results, but Figure 4 shows soil locations. 11GS47 is shown on the northern end of Site 11 in Figure 5 — groundwater sampling locations.

FDEP Comment 13:
Tables 14 and 18: I like the summarized data in these tables. However, I do not know if this data is referring to groundwater, soil or leaching data, please clarify.

Response:
These tables refer to groundwater data. Comment is noted and will be addressed in the Final.

REMEDIAL INVESTIGATION ADDENDUM

OPERABLE UNIT 2

NAVAL AIR STATION PENSACOLA

Contract No. N62467-89-D-0318

Contract Task Order 059

Volume I of IV

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina

Prepared by:

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Memphis, Tennessee 38134
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The Contractor, EnSafe Inc. hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.

Date: July 30, 2004
Signature: Allison Harris
Name: Allison Harris
Title: Task Order Manager

Table of Contents

1.0 INTRODUCTION 1
- 1.1 Purpose and Scope 1
- 1.2 Prior Work and 2003 Work 2

2.0 BACKGROUND INFORMATION 3

3.0 FIELD METHODOLOGY 4
- 3.1 Soil Sampling 4
- 3.2 Well Installation and Groundwater Sampling 4

4.0 LAB ANALYSIS 7

5.0 DATA PRESENTATIONS 8
- 5.1 Metals 8
- 5.2 Pesticides/PCBs 12
- 5.3 SVOAs 14
- 5.4 VOAs 18
- 5.5 MNA Parameters and Evaluation 24
  - 5.5.1 Contaminants and Biodegradation Pathways 24
  - 5.5.2 Objectives of Evaluation 25
  - 5.5.3 NA Parameters 26

6.0 CONCLUSIONS 42

7.0 PROFESSIONAL GEOLOGIST CERTIFICATION 45

List of Tables

Table 1 March 2003 Water Levels
Table 2 Summary of Soil Metals
Table 3 Metals SPLP Results
Table 4 Summary of Groundwater Metals
Table 5 Summary of Soil Pesticides
Table 6 Summary of Soil PCBs
Table 7 Pesticide SPLP Results
Table 8 PCB SPLP Results
Table 9 Summary of Groundwater Pesticides
Table 10 Summary of Groundwater PCBs
Table 11 Summary of Soil SVOAs
Table 12 Semi-VOAs SPLP Results
Table 13 Summary of Groundwater SVOAs
Table 14 Historical Trends in SVOA Concentrations
Table 15 Summary of Soil VOAs
Table 16 VOAs SPLP Results

Table 17 Summary of Groundwater VOAs
Table 18 Historical Trends in VOA Concentrations
Table 19 NA Parameters, Analysis Methods, and Rationale
Table 20 Preliminary Natural Attenuation Screening Rankings
Table 21 NA ranking at locations with GCTL exceedances
Table 22 Total Chloride Determination at 30GS22
Table 23 Normalized VOC Concentrations at Downgradient Well 30GS27
Table 24 Estimates of First Order Biodegradation Decay Constants 30GS22-30GS27 Flowpath
Table 25 BTEX Assimilative Capacity at 11GS47

List of Figures

Figure 1 Site Area Map
Figure 2 Shallow Piezometric Surface
Figure 3 Intermediate Piezometric Surface
Figure 4 Soil Sample Locations
Figure 5 Groundwater Sampling Locations
Figure 6 Metals LB SCTL Exceedances in Soil
Figure 7 Aluminum, Iron, and Manganese Exceedances in Groundwater
Figure 8 Barium, Cadmium, Chromium, Lead, GCTL Exceedances in Groundwater
Figure 9 SVOA GCTL Exceedances in Groundwater
Figure 10 VOA LB SCTL Exceedances in Soil
Figure 11 VOA GCTL Exceedances in Groundwater

List of TS Trend Summaries

TS-1 Trend Summaries of Cadmium in Selected Wells
TS-2 Trend Summaries of Cadmium in Selected Wells
TS-3 Trend Summaries of Chromium in Selected Wells
TS-4 Trend Summaries of 1,4-Dichlorobenzene in Selected Wells
TS-5 Trend Summaries of 1-Methylnaphthalene in Selected Wells
TS-6 Trend Summaries of 2,4-Dichlorophenol in Selected Wells
TS-7 Trend Summaries of 2-Mehtylnaphthalene in Selected Wells
TS-8 Trend Summaries of 3/4-Mehtylphenol in Selected Wells
TS-9 Trend Summaries of Naphthalene in Selected Wells
TS-10 Trend Summaries of Napthalene in Selected Wells
TS-11 Trend Summaries of Benzene in Selected Wells
TS-12 Trend Summaries of Benzene in Selected Wells
TS-13 Trend Summaries of Chlorobenzene in Selected Wells
TS-14 Trend Summaries of Chloroethane in Selected Wells
TS-15 Trend Summaries of Chloroethane in Selected Wells
TS-16 Trend Summaries of 1,1-Dichloroethane in Selected Wells
TS-17 Trend Summaries of 1,1-Dichloroethene in Selected Wells
TS-18 Trend Summaries of 1,1-Dichloroethene in Selected Wells
TS-19 Trend Summaries of 1,1-Dichloroethene in Selected Wells

TS-20 Trend Summaries of cis-1,1-Dichloroethene in Selected Wells
TS-21 Trend Summaries of cis-1,1-Dichloroethene in Selected Wells
TS-22 Trend Summaries of Tetrachloroethene in Selected Wells
TS-23 Trend Summaries of Tetrachloroethene in Selected Wells
TS-24 Trend Summaries of Tetrachloroethene in Selected Wells
TS-25 Trend Summaries of Tetrachloroethene in Selected Wells
TS-26 Trend Summaries of 1,1,1-Trichloroethane in Selected Wells
TS-27 Trend Summaries of 1,1,1-Trichloroethane in Selected Wells
TS-28 Trend Summaries of Trichloroethene in Selected Wells
TS-29 Trend Summaries of Trichloroethene in Selected Wells
TS-30 Trend Summaries of Trichloroethene in Selected Wells
TS-31 Trend Summaries of Trichloroethene in Selected Wells
TS-32 Trend Summaries of Vinyl Chloride in Selected Wells
TS-33 Trend Summaries of Vinyl Chloride in Selected Wells
TS-34 Trend Summaries of Xylenes (Total) in Selected Wells
TS-35 Trend Summaries of Xylenes (Total) in Selected Wells

List of Appendices

Appendix A Soil and Groundwater Cleanup Target Levels
Appendix B Soil Boring and Well Completion Logs
Appendix C Groundwater Sampling Records
Appendix D Laboratory Analytical Reports
Appendix E Data Validation Report

1.0 INTRODUCTION

This Remedial Investigation (RI) Addendum has been prepared to supplement data presented in the original RI (EnSafe, 1995) for Operable Unit (OU) 2 at Naval Air Station Pensacola (NASP). This document reports the results of soil and groundwater sampling conducted in March 2003. It also integrates this data, through direct comparison, with that collected in 1993 and 1995 for the original RI. This information is intended to support development of the final Feasibility Study (FS) for the OU.

Figure 1 shows the location of OU2. It is in the east-central portion of NASP, in the location of former industrial activity when one of the facility's missions was maintenance and repair of rotary wing aircraft. It is comprised of six individual sites:

Site 11 — North Chevalier Disposal Field
Site 12 — Scrap Bins
Site 25 — Radium Spill Site
Site 26 — Supply Department Outside Storage
Site 27 — Radium Dial Shop Sewer
Site 30 — Buildings 648 Sewer Line, Buildings 649 and 755

1.1 Purpose and Scope

Data have not been collected at OU2 since 1995. Making remedial decisions using 8 year old data provides an unacceptable level of risk. At the request of the Tier 1 NAS Partnering Team, the existing data were reviewed, and a focused sampling plan was developed to assess the current state of contamination at OU2. This focused sampling targeted soil at locations where leachability-based Florida Soil Cleanup Target Levels (LB SCTLs) were exceeded, and groundwater at locations where Florida Groundwater Cleanup Target Levels (GCTLs) were exceeded. Analysis was performed at each identified location, for all parameters that had exhibited a previous exceedance of the appropriate CTL. New data were then compared to previous analytical data to document changes from 1993/1995, and to support the final FS.

Appendix A contains the current SCTLs and the GCTLs that are used as comparators in this addendum.

1.2 Prior Work and 2003 Work

Prior work was conducted in two phases, 1993 and 1995. General and comprehensive sampling of soil and groundwater was conducted at Sites 11, 25, 27, and 30 in 1993 as part of the RI. In 1995, general and comprehensive sampling was conducted for Sites 12 and 26, and targeted groundwater sampling was conducted for groundwater at Sites 11, 25, 27, and 30. The 1995 groundwater sampling was accomplished using low-flow techniques, and was therefore deemed more accurate than the previous sampling, which had been conducted with bailers.

The 2003 resampling was conducted in March 2003. The sampling plan was a corroborative effort between the Tier 1 Partnering Team including Florida Department of Environmental Protection and U.S. Environmental Protection Agency representatives, and included both soil and groundwater. Soil sampling was targeted to those locations and subsurface depths (greater than 1 ft depth from the surface) that had previously exhibited an exceedance of any leachability-based SCTL for one or more parameters. Groundwater sample locations were also strategically targeted, and in general were based on one or more of three criteria:

1) a past exceedance of a GCTL in that location was noted
2) the location was in the central portion of the previously identified plume
3) the location was downgradient of the old plume, and bordered discharge areas Wetlands 5A and B, Wetland 6, and the Yacht Basin (see Figure 1)

Analytical parameters were grouped into the following major groups: Metals, Pesticides/PCBs, Semivolatiles (SVOAs); and Volatiles (VOAs). In addition to these, parameters critical to evaluating Monitored Natural Attenuation (MNA) potential were also analyzed. This sampling design was intended to provide information on the trend of contamination in critical old plume areas, and to determine the current nature of groundwater immediately prior to discharge to wetlands.

2.0 BACKGROUND INFORMATION

The background information for the sites at OU2, including their geology, history, and environmental setting, is included in the RI report (EnSafe, 1995).

Synoptic water levels were collected across OU2 as part of this resampling. The potentiometric surface for the shallow aquifer system is presented in Figure 2, and for the intermediate system in Figure 3. Table 1 summarizes the water level measurements taken in March 2003.

3.0 FIELD METHODOLOGY

3.1 Soil Sampling

Soil borings were advanced using a direct push technology rig. In this technique, drill rods were lined with acetate liners, which filled with soil as the push rod was advanced. Metals, Pesticide/PCB, and SVOA fractions were extracted from the liner and composited before sampling, and VOAs fractions were collected using EnCore © Samplers directly from the acetate liner. Duplicate volumes were collected for each of the samples so that Synthetic Precipitation Leaching Procedure (SPLP) analyses could also be performed — the volume sent to the lab for totals analysis was designated as the "bulk" sample, and the other volume was designated the SPLP sample. Samples were collected from the same locations and depths that exceeded a GCTL (or leachability based SCTL?) in the 1993 or 1995 data. A total of 25 boreholes were completed and 32 soil samples were collected as part of this effort. Figure 4 shows the locations, depths, and parameter groups for soil sampling for the 2003 event. Borehole completion and soil sample collection information are included in Appendix B.

3.2 Well Installation and Groundwater Sampling

Groundwater samples were collected from 69 strategically targeted locations. Figure 5 shows the locations and the parameter groups for groundwater sampling in the 2003 event. Samples were collected from both shallow (well screens bracket the water table) and intermediate (wells screened within a few feet of the top of the aquitard at the base of the surficial aquifer zone) depths.

During a reconnaissance prior to the resampling, it was discovered that the wells at two locations previously scheduled for groundwater resampling had been demolished (locations 25GS04 and 30GS029). As a result, two new monitoring wells were installed to obtain the groundwater samples in those locations. These are designated as 25GS10 and 30GS174 in Figure 5. In addition to these two new wells, a new well on Site 11 (downgradient of test trench LF-2) and a new well on Site 12 immediately upgradient of the southern end of the site) were installed to monitor those areas. All of the newly-installed wells were at shallow depths (screens bracket the water table). Borehole completion was executed with the

same direct-push drilling rig used for the soil sample collection. All screens and risers were composed of Schedule 40 PVC. Screens were 2-inch nominal diameter, and 10-feet in length. Annular backfill consisted of a clean 20-30 sand to approximately two feet above the top of the screen, followed by a bentonite seal at least two feet in thickness, followed by a grout finish to just below ground surface. Surface finishes were either flush-mount, or above-grade, depending on the anticipated ground traffic near the wellhead. Development was completed using a small centrifugal pump, and was conducted until the discharge was clear and field parameters (pH, specific conductivity and temperature) had stabilized. Appendix B contains the drilling and well completion logs for the newly-installed wells.

Well purging for groundwater sampling was executed using the low-flow technique, utilizing Teflon© tubing and peristaltic pumps. In this technique, low withdrawal flows are initialized in the well, with the inlet point for the tubing situated at approximately the middle of the screened interval. Monitoring of field parameters (pH, specific conductivity, temperature and turbidity) are monitored as the well purges. Purging continues until these parameters have stabilized (e.g., three consecutive readings within 10% of each other) or until the well is purged dry. Samples for metals, SVOAs, and pesticide/PCBs are collected from an in-stream transfer bottle, and for VOAs via removing the inflow tubing and reversing flow in it directly into VOA vials. Appendix C contains the groundwater sampling records that document purge volumes and field parameter information for this resampling event.

Upon reaching stabilization of the well to be sampled for MNA parameters, groundwater samples were collected using low flow techniques with special care not to introduce air bubbles into the collection vessel. Beginning with dissolved oxygen, all water samples are analyzed using a portable spectrophotometer within an hour of collection. Dissolved oxygen was analyzed using the Winkler Method.

A temporary field laboratory was positioned in the proximity of several NA wells to insure prompt analysis of collected samples. Field analyses included:

- Oxidation-reduction potential
- Nitrate
- Dissolved Oxygen
- Iron II
- Sulfate
- Sulfide
- Chloride
- Alkalinity

4.0 LAB ANALYSIS

All soil and groundwater samples were sent to STL Savannah Laboratories (Savannah, GA) for one or more of the following analyses:

Soil:

Target Compound List (TCL) VOAs (Method 8260)

TCL SVOAs (Method 8270)

Low Level Polynuclear Hydrocarbons (PAHs) (Method 8270)

Target Analyte List (TAL) Metals (6010)

Mercury (Method 7471)

TCL Pesticides (Method 8081)

PCBs (Method 8082)

Groundwater:

Target Compound List (TCL) VOAs (Method 8260)

TCL SVOAs (Method 8270)

Low Level Polynuclear Hydrocarbons (PAHs) (Method 8270)

Target Analyte List (TAL) Metals (6010)

Mercury (Method 7470)

TCL Pesticides (Method 8081)

PCBs (Method 8082)

MNA Parameters:

MNA samples for gases were sent to Microseeps, Inc. (Pittsburgh, PA) for analysis for parameters that are not accurately measurable in the field. These included carbon dioxide, hydrogen, methane, nitrogen, and oxygen.

Appendix D contains the complete set of laboratory analytical results for soil and groundwater, and Appendix E contains the data validation report.

5.0 DATA PRESENTATIONS

The data generated from this resampling has been reduced (eliminating evaluation of non-detects) and compared to previous data from OU2. Tabular summaries of these comparisons are provided, and figures have been prepared that graphically illustrate the locations of exceedances of SCTLs and GCTLs. Only current exceedances were mapped; if no exceedances of a given parameter group were present, then no figure was prepared. For the chemical species that did exceed applicable CTLs, all detects and non-detects for that species were plotted on the figures. For the data presentations that follow, soil and groundwater are integrated and discussed by parameter group. This will provide the continuity needed to follow the framework from potential sources to eventual receptors through soil to groundwater. For summaries of the contaminant groups, refer to the tables; for spatial occurrences of exceedances, refer to the figures.

Finally, in order to ascertain where the OU stands in the investigative and remedial phases, several questions are asked and answered as part of the data presentations. In order for the OU to progress smoothly from the remedial investigation phase and into the remedial phase: a) The nature of all contaminants, and affected media, should be identified; b) The possible transport pathways should be identified and evaluated; c) Contaminated media should be delineated to the extent that remedial alternatives can be evaluated in an unbiased fashion. Therefore, at the end of each contaminant group presentation, questions are posed and answered regarding the temporal trend(s) in soil contamination, the soil to groundwater pathway, the temporal trend(s) in groundwater conditions, and the adequacy of delineation for the purpose of remedial alternative analysis.

5.1 Metals

Soil:

A total of nine 2003 soil samples (eight subsurface and one surface) were collected and analyzed for metals (see Figure 2). Again, these locations were identified to be re-sampled based on 1993-1995 data that had identified metals exceedances of the applicable 1993-1995 regulatory benchmarks. Table 2 summarizes the historical and

current analytical results, and compares these results to leachability-based (LB) SCTLs, NASP reference values for metals, and (for the surface soil sample) the residential exposure SCTLs. Figure 6 presents the location and identifies the metals exceedances that were measured in these samples.

Of the eight 2003 subsurface samples collected, only one sample demonstrated an exceedance of a LB SCTL (011S001506, for chromium). The single surface soil sample (011SLF01) demonstrated an exceedance of the residential exposure SCTLs for both arsenic and chromium, and the LB SCTL for chromium.

Soil SPLP:

A total of nine 2003 samples (corresponding to the bulk soil samples described above) were analyzed for metals leachability using the SPLP procedure. Table 3 summarizes these analyses.

As described previously, bulk results for two samples (see Table 3) demonstrated LB SCTL exceedances for chromium. Unaltered (no dilution attenuation factor applied) leachate results for chromium from these samples did not measure an exceedance of the GCTL.

Leachate results from two samples did demonstrate GCTL exceedances for cadmium and lead (see Table 3), but no SCTL exceedances for these same parameters in the corresponding bulk samples.

Groundwater:

A total of 35 samples were collected and analyzed for metals (see Figure 5). Again, these locations were identified to be re-sampled based on 1993-1995 data that had identified metals exceedances of the applicable 1993-1995 regulatory benchmarks. Table 4 summarizes the historical and current analytical results, and compares these results to current 2003 GCTLs, NASP reference values for metals, and 2003 fresh water and marine surface water benchmarks (for comparison to those sample points located closest to adjacent fresh and marine surface water).

Figure 7 illustrates the 2003 exceedances for aluminum, iron, and manganese, three metals which have proven to be ubiquitous at NASP at concentrations greater than the GCTL (see Table 4). Figure 8 illustrates the 2003 exceedances for other metals that demonstrated an exceedance of the GCTL (barium, cadmium, chromium, and lead).

Of the 35 samples, the following exceedances of the higher of the GCTLs or the NASP reference were present (see Table 4): aluminum (14 samples); iron (28 samples); manganese (13 samples); barium (one sample); cadmium (six samples); chromium (three samples); and lead (four samples).

Data Analysis:

Soil:

One subsurface sample (011S0011506) and one surface sample (011SLF5S01) demonstrated exceedances of the LB SCTL for chromium; this is a conservative determination, however, as it assumes all of the chromium detected was the hexavalent species, which historically has not been detected at NASP.

The sole surface sample (011SLF5S01) demonstrated exceedances of the arsenic and chromium residential exposure SCTLs; this is also a conservative determination, as the area is not residential and is not anticipated to be so in the future.

Two areas of soil did demonstrate an ability to leach cadmium and lead to groundwater above the GCTLs even though the soil itself is below the LB SCTLs for these metals; these areas are located at Site 11, on the northern end at 6 feet below ground surface (BGS), and at the southern end of Site 11, at the surface and adjacent to Wetland 6.

Groundwater:

The barium exceedance was at a single location (011GS13) adjacent to Wetland 6; it is restricted to the shallow aquifer depth and its origin is unclear. The cadmium exceedances include two (12GS08 and 12GS09) in the DRMO area (potential relationship to the

former site activity), three (30GS28, 27GS10, and 30GS174) in the Building 649 area (potential relationship to former site activities), and one(11GS07) on Site 11 on the immediate west side of Wetland 6 (potential relationship to site activity). The three chromium exceedances (30GS27, 30GS28, 27GS10) are in the Building 648/649 areas (potential relationship to former site activities). The lead exceedances include one (30GS06) near Building 3483 (former petroleum release area), one (11GS07) on the east side of Site 11 (in the surficial only, potentially related to DRMO and perhaps exacerbated by high leaching potential), one (30GS103) behind Building 3644 (no clear relationship to site activity), and one (30GS126) south of Building 3220 (potential relationship to former site activities).

Feasibility Study Questions:

Has there been a long-term change in soil contamination?

There has been a downward trend in soil contamination with respect to metals (see Table 2), with the exception of chromium measured at location 011S0011506.

Has there been a long-term change in groundwater contamination?

Using exceedances of benchmark concentrations as a guide, and aside from the metals that tend to occur at relatively high concentrations naturally (aluminum, iron, and manganese): decreases are noted for locations 11GI04, 11GS05, 11GS28, 27GI02, 27GS02, 27GS10, 30GS22, 30GS27, 30GS103, 30GS126.

Trend analysis Table T-1 provides the following information for metals in groundwater:

For each location that exhibited an exceedance in at least one of the sampling events, 1) whether there has been a trend towards a fewer or higher number of exceedances from 1993/95 and 2003, 2) the number of exceedances from 1993/95 to 2003, and 3) for those that exhibited an exceedance in 2003, whether the concentrations have gone up or down from 1993/95.

In summary (including aluminum, iron, and manganese), 18 locations exhibited fewer exceedances, 11 exhibited higher, and two exhibited the same. The number of exceedances dropped from 70 to 43, and of the 43 — 2003 exceedances, 26 were higher than 1993/95, 16 were lower, and one could not be determined. Trend summaries with respect to concentrations of cadmium and chromium are graphically presented in trend summary Figures TS-1 through TS-3 for wells that exhibited an exceedance of these during at least one of the sampling events.

Are there continuing problems with the soil to groundwater pathway?
Yes, at Site 11 with respect to cadmium and lead.

Are there continuing problems with the groundwater to surface water pathway?
Yes, at Building 649 (cadmium and lead), south of Building 3220 (lead), and on the northern end of Site 11 (cadmium and lead). There are also a number of locations along Wetlands 5A, 5B, 6, and 7 that exhibit exceedances of iron and manganese above the higher of the GCTL or the NASP reference.

Is delineation complete for the purposes of the FS?
Yes; although deterministic impacted volumes are not final, they can be estimated, and the nature of contamination is characterized sufficiently to allow an unbiased evaluation of alternatives. If further delineation is deemed necessary, it can be accomplished as an integral element of remedial design.

5.2 Pesticides/PCBs

Soil:

A total of three 2003 samples were collected and analyzed for pesticides and PCBs (see Figure 4). Again, these locations were identified to be re-sampled based on 1993-1995 data that had identified pesticide/PCB exceedances of the applicable 1993-1995 regulatory benchmarks. Tables 5 and 6 summarize the historical and current analytical results, and compare these results to leachability-based (LB) SCTLs.

Of the three samples collected and analyzed, only three detections of pesticides and one detection of PCBs were demonstrated. None of these detections exceeded the applicable LB SCTLs.

Soil SPLP:

A total of three 2003 samples (corresponding to the bulk soil samples described above) were analyzed for pesticides/PCBs leachability using the SPLP procedure. Tables 7 and 8 provide the summaries of these analyses.

None of the bulk samples demonstrated an exceedance for pesticides or PCBs, and none of the samples demonstrated a detection in the corresponding leachate samples.

Groundwater:

A total of two groundwater samples were collected and analyzed for pesticides and PCBs (see Figure 5). Again, These locations were identified to be resampled based on 1993-1995 data that had identified exceedances of the applicable 1993-1995 regulatory benchmarks for these parameters. Tables 9 and 10 summarize the historical and current analytical results, and compare these results to current 2003 GCTLs, and 2003 fresh water and marine surface water benchmarks (for comparison to those sample points located closest to adjacent fresh and marine surface water). There were no detections of pesticides or PCBs in the 2003 groundwater samples.

Feasibility Study Questions:

Has there been a long-term change in soil contamination?

Yes; 2003 results indicate a downward trend in soil contamination.

Has there been a long-term change in groundwater contamination?

Yes; 2003 results indicate a downward change in contamination.

Are there continuing problems with the soil to groundwater pathway?

No.

Are there continuing problems with the groundwater to surface water pathway?

No.

Is delineation complete for the purposes of the FS?

Yes.

5.3 SVOAs

Soil:

A total of six 2003 subsurface soil samples were collected and analyzed for SVOAs (see Figure 4). These locations were identified to be re-sampled based on 1993-1995 data that had identified SVOA exceedances of the applicable 1993-1995 regulatory benchmarks. Table 11 summarizes the historical and current analytical results, and compares these results to leachability-based (LB) SCTLs.

Of the six 2003 subsurface samples collected, none demonstrated an exceedance of an SVOA LB SCTL.

Soil SPLP:

A total of six 2003 samples (corresponding to the bulk soil samples described above) were analyzed for SVOA leachability using the SPLP procedure. Table 12 provides the summary of these analyses.

Leachate results from two samples demonstrated GCTL exceedances, although the corresponding bulk analytical results were below the applicable SCTL. These included 1-methylnapthane, 2-methynapthalene, and naphthalene from 011SLF1206, and 2,4 dinitrotoluene and 2,6-dinitrotoluene from 027S001706.

Groundwater:

A total of 26 samples were collected and analyzed for SVOAs (see Figure 5). These locations were identified to be re-sampled based on 1993-1995 data that had identified

SVOA exceedances of the applicable 1993-1995 regulatory benchmarks. Table 13 summarizes the historical and current analytical results, and compares these results to current 2003 GCTLs, and 2003 fresh water and marine surface water benchmarks (for comparison to those sample points located closest to adjacent fresh and marine surface water).

Figure 9 illustrates the 2003 GCTL exceedances for SVOAs. All detections of SVOAs that demonstrated an exceedance at any location, and were present above the method detection limit, are shown on this figure. Because of their low concentrations, those compounds estimated to be present above the instrument detection limit but below the method detection limit were not plotted, but can be identified in Table 13.

The following GCTL exceedances (and locations) from the 2003 samples were demonstrated:

- 1-methynapthalene (11GS47, 30GS06, 30GS22)
- 2-methylnapthalene (11GS47, 30GS06, 30GS22)
- 3 and 4 – methyphenol (27GS19, 27S018, 30GS22)
- naphthalene (27GS19, 30GS06, 27GS18)
- 1,4 dichlorobenzene (30GI111)
- 2,4 dichlorophenol (30GI111)
- carbazole (30GS06)
- pentachlorophenol (30GS06)

Data Analysis

Soil:

There are no areas of soil sampled in 2003 demonstrating SCTL exceedances for SVOAs, and therefore no soil that is immediately identified as a continuing source of contamination to groundwater.

Leaching results indicate that there are two areas that have the potential to leach SVOAs to groundwater above the GCTLs even though the soil itself is below the SCTLs: these are on the

northern end of Site 11 at six feet BGS, and on Site 27, in the center of OU2 atop the topographic high.

Groundwater:

The following locations demonstrated an exceedance of the SVOA GCTLs in 2003:

- 11GS47 (east side of Site 11, adjacent to Wetland 6; associated with former site activities)
- 27GS19 (in the center of Site 27, atop the topographic high, associated with former site activities)
- 30GI111 (immediately north of Wetland 5A and east of Wetland 6; source unknown)
- 30GS06 (near Building 3483, a former petroleum release area, and immediately upgradient of Wetland 5A; associated with former site activities)
- 30GS22 (in the center of the Building 648/649 complex; associated with former site activities)
- 27S018 (in the center of Site 27, atop the topographic high; associated with former site activities)

Feasibility Study Questions:

Has there been a long-term change in soil contamination?

Of the six 2003 samples collected, SVOA concentrations decreased from 1993/1995.

Has there been a long-term change in groundwater contamination?

In general the number of exceedances and the magnitude of detections decreased or remained relatively stable. Exceptions to this include the area near 30GS22, the area near 27GS19, and

the area near 30GI111. Table 14 elaborates on the historical trends for those wells demonstrating exceedances in 2003.

Trend analysis Table T-2 provides the following information for SVOAs in groundwater:
For each location that exhibited an exceedance in at least one of the sampling events, 1) whether there has been a trend towards a fewer or higher number of exceedances from 1993/95 and 2003, 2) the number of exceedances from 1993/95 to 2003, and 3) for those that exhibited an exceedance in 2003, whether the concentrations have gone up or down from 1993/95.

In summary, five locations exhibited fewer 2003 exceedances than 1993/95, three exhibited higher, and three exhibited the same. The total number of exceedances remained the same from 1993/95 (18) to 2003 (18). Of 19-2003 exceedances, 11 had concentrations that went up, six had concentrations that went down, and one could not be determined (the parameter was not analyzed for in 1993/95). Trend summary Figures TS-4 through TS-10 graphically present trends for 1,4-dichlorobenzene, 1-methylnapthalene, 2,4-dichlorophenol, 2-methylnapthalene, 3,4-methylphenol, and naphthalene in wells that exhibited an exceedance of these parameters during at least one of the sampling events.

Are there continuing problems with the soil to groundwater pathway?
Yes. One location at Site 11 and one location at Site 27 demonstrate concentrations below the applicable SCTLs, but have the potential to leach SVOAs at concentrations above the applicable GCTLs.

Are there continuing problems with the groundwater to surface water pathway?
Yes. Three areas demonstrated exceedances above the GCTL, and were immediately adjacent to, or were the closest downgradient well, to wetlands. These included 11GS47 (adjacent to Wetland 6), 30GI111 (adjacent to Wetlands 5B and 6), and 30GS06 (adjacent to Wetland 5A).

Is delineation complete for the purposes of the FS?

Yes; although deterministic impacted volumes are not final, they can be estimated on the scale of the OU, and the nature of contamination is characterized sufficiently to allow an unbiased evaluation of alternatives. If further delineation is deemed necessary, it can be accomplished as an integral element of remedial design.

5.4 VOAs

Soil:

A total of 17 subsurface soil samples were collected and analyzed for VOAs (see Figure 2). Again, these locations were identified to be re-sampled based on 1993-1995 data that had identified VOA exceedances of the applicable 1993-1995 regulatory benchmarks. Table 15 summarizes historical and current analytical results, and compares these results to leachability-based (LB) SCTLs.

Of the17 subsurface samples collected, one demonstrated exceedances of LB SCTLs for VOAs (030S0013820 for ethylbenzene, PCE, and xylene; see Table 15). The LB SCTL for PCE was equaled in sample 011S00606. Figure 10 illustrates the location of these two samples.

Soil SPLP:

A total of 17 samples (corresponding to the bulk soil samples described above) were analyzed for VOA leachability using the SPLP procedure. Table 16 summarizes these analyses.

As noted previously, bulk results for two samples (030S00606 and 030S013820; see Table 16) were either equal to or exceeded the LB SCTL for PCE. One of these bulk samples (030S013820) also demonstrated exceedances for ethylbenzene and xylene. Unaltered (no dilution attenuation factor applied) leachate results for PCE and ethybenzene from these samples did not measure an exceedance of the corresponding GCTL; however the leachate result for xylene in sample 030S013820 was well above the GCTL (see Table 16).

Leachate results from one sample did demonstrate a GCTL exceedance for 1,2 dichloropropane (030S01718; see Table 16), but the corresponding bulk sample did not demonstrate an SCTL exceedance for this compound.

Groundwater:

A total of 28 samples from Site 30 and 33 from Sites 11, 12, 25, and 27 were collected and analyzed for VOAs (see Figure 5). These locations were identified to be re-sampled based on 1993-1995 data that had identified VOA exceedances of the applicable 1993-1995 regulatory benchmarks. Table 17 summarizes the historical and current analytical results, and compares these results to current 2003 GCTLs, and 2003 fresh water and marine surface water benchmarks (for comparison to those sample points located closest to adjacent fresh and marine surface water).

Of the 61 samples collected, 21 demonstrated exceedances of at least one GCTL. Figure 11 illustrates the 2003 GCTL exceedances for VOAs. All detections of VOAs that demonstrated an exceedance at any location, and were present above the method detection limit, are shown on this figure. Because of their low concentrations, those compounds estimated to be present above the instrument detection limit but below the method detection limit were not plotted, but can be identified in Table 17.

The following GCTL exceedances (and locations) from the 2003 samples were demonstrated:

- chlorobenzene (30GI111, 30GS111)
- chloroethane (30GS22, 30GS111, 27GS11)
- cis-1,2- DCE (30GI170, 11GI12, 11GI14, 11GS52, 27GI04, 27GI06, 27GS19)
- 1,1-DCA (30GS22)
- 1,2-DCA (11GI10)
- 1,1-DCE (27GI04, 27GI06)
- PCE (30GS22, 30GS28, 30GS46, 11GI02, 11GI12, 27GS18, 27GS19, 27GS04)
- TCE (30GI170, 11GI02, 11GI12, 11GI14, 11GS52, 25GI01, 27GS19)

- VC (30GI111, 30GI170, 30GS18, 11GI14, 11GS47, 11GS52, 27GS04)
- Xylene (30GI170, 30GS06, 11GS47, 27GS18, 27GS19)
- Ethylbenzene (30GS06, 11GS47, 27GS19)
- Benzene (11GS47, 11GS28, 30GS111, 30GI111, 30GS06, 27GS04)

Data Analysis

Soil:

Two areas of soil sampled in 2003 demonstrated VOA concentrations capable of leaching VOAs to groundwater at or above the applicable GCTL. These include an area (011GS0606) in the northwest corner of Site 11 at 6 feet BGS, and one area at Site 30 — in the southwest corner of the site adjacent to Building 2690 (030S013820) at 20 feet BGS.

These areas were identified from samples that were collected immediately above the water table; none of the samples denoted a material other than sand encountered during the sampling of these intervals. Due to the very porous nature of the sands at NASP, determination of the water table occurrence is difficult. These samples may represent media collected in the capillary zone of the aquifer, in which case the contamination is more accurately evaluated as a smear zone, where contamination at the top of the water table is imparted to the soil via seasonal lowering and rising of the water table. Boring logs recorded for these locations do not identify PID readings above zero until encountering the zone immediately above the water table, and groundwater samples collected from near these areas have similar contaminants, but at lower concentrations. The most logical treatment of these soil zones from a remediation perspective then, especially given their limited thickness and relatively deep occurrence, is to view them conceptually as a part of the aquifer matrix.

Groundwater:

The following locations demonstrated an exceedance of the VOA GCTLs in 2003 (see Figure 11):

- 30GS111 and 30GI111 (southeast corner of site 30, immediately adjacent to Wetland 6; source unknown)

- 30GI170 (south of Building 3220; associated with former site activities)
- 30GS18 (adjacent to Wetland 5A; associated with former site activities)
- 30GS22 (in the center of the Building 648/649 complex; associated with former site activities)
- 30GS46 (immediately north of Building 648; associated with former site activities)
- 30GS28 (south of Building 3450; associated with former site activities)
- 30GS06 (near Building 3483; associated with former site activities)
- 11GI02 (upgradient side of southern end of Site 11)
- 11GI10 (southeast corner of Site 11)
- 11GI12 (downgradient side of southern end of Site 11)
- 11GI14 (southern end of Site 11)
- 11GS28 (northwest corner of Site 11)
- 11GS47 (northern end of Site 11);
- 11GS52 (southern end of Site 11)
- 25GI01 (central portion of site, immediately north of Building 225)
- 27GI04 (southern end of site; northeast corner of Building 3607)

- 27GI06 (southwestern corner of site; east of Building 649)
- 27GS04 (center of site; southwest corner of Building 741)
- 27GS11 (southwestern corner of site; east of Building 649)
- 27GS18 (northern central portion of site)
- 27GS19 (northern central portion of site)

Feasibility Study Questions:

Has there been a long-term change in soil contamination?

Ten samples collected in 1993/1995 had an exceedance of current SCTLs; all of these went down in the 2003 sampling. There has been a significant decrease in soil contamination since the 1993/1995 sampling.

Has there been a long-term change in groundwater contamination?

In general the number of exceedances of the current GCTLs and the magnitude of detections decreased or remained relatively stable when comparing the 2003 data directly with the 1993 data. 26 samples demonstrated exceedances in 1993; of those, 20 demonstrated exceedances in 2003, and two locations that had 2003 exceedances did not in 1993. In comparing the 2003 data directly with the 1995 data, the number of localities with exceedances actually went up: of 21 common samples, 15 demonstrated exceedances in 1995, while 19 demonstrated 2003 exceedances. Table 18 elaborates on these historical trends.

Trend analysis Table T-3 provides the following information for VOAs in groundwater:

For each location that exhibited an exceedance in at least one of the sampling events, 1) whether there has been a trend towards a fewer or higher number of exceedances from 1993/95 and 2003, 2) the number of exceedances from 1993/95 to 2003, and 3) for those that

exhibited an exceedance in 2003, whether the concentrations have gone up or down from 1993/95. In summary, 26 locations exhibited a fewer number of exceedances in 2003, seven exhibited a higher number, and 5 exhibited the same. The total number of exceedances dropped from 101 to 46. Of the 46 — 2003 exceedances, 25 were lower than 1993/95, 17 were higher, and four could not be determined (due to higher detection limits in 1993/95). Trend summary Figures T-S-12 through TS-35 graphically present trends for benzene, chlorobenzene, chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, vinyl chloride, and total xylenes in wells that exhibited an exceedance of these compounds in at least one of the sampling events.

Are there continuing problems with the soil to groundwater pathway?

No. This statement is based on the resampling done in 2003 that targeted all of the soil exceedances demonstrated during previous sampling. There are two locations that exhibit VOA concentrations above or equal to, the LB SCTLs, all of which are immediately above the water table. It is the conclusion of this RI Addendum, because of the seasonal changes in water levels, and the nature of VOAs, that these represent contamination imparted to the soil matrix from the groundwater, and that conceptually this soil should be treated as aquifer matrix.

Are there continuing problems with the groundwater to surface water pathway?

Yes. Areas that demonstrated exceedances above the GCTL, and were immediately adjacent to, or were the closest downgradient well, to wetlands, included 30GS111/30GI111 (adjacent to the southern end of Wetland 6), 30GS18 (adjacent to Wetland 5A), 30GS06 (adjacent to Wetland 5A), 30GI170 (adjacent to Wetland 5B), 11GS52 (adjacent to the central portion of Wetland 6), 11GI114 (adjacent to the northern portion of Wetland 6), 11GI12 (adjacent to the northern portion of Wetland 6) , 11GI10 (adjacent to the southern portion of Wetland 7), and 11GS47 and 11GS28 (both adjacent to Wetland 7).

Is delineation complete for the purposes of the FS?

Yes; although deterministic impacted volumes are not final, they can be estimated on the scale of the OU, and the nature of contamination is characterized sufficiently to allow an unbiased evaluation of alternatives. The exception to this is in the vicinity of the southeast corner of the OU (30GS111 and 30GI111) that may be impacted by groundwater flow from the east.

5.5 MNA Parameters and Evaluation

Natural attenuation (NA) refers to a combination of biological, chemical, and physical processes by which the concentrations of constituents are naturally eliminated *in-situ*. These processes include destructive and non-destructive mechanisms. Physical processes are non-destructive and tend to reduce the concentrations of contaminants by dispersion, dilution with recharge, adsorption, or volatilization and do not directly reduce the mass of contaminants in groundwater. By contrast, biological processes involve the direct biodegradation of contaminants, thereby reducing their concentrations as well as their overall mass in groundwater, a destructive mechanism.

5.5.1 Contaminants and Biodegradation Pathways

Historic VOC contamination at OU2 has been primarily that of chlorinated aliphatic hydrocarbons (i.e., chlorinated solvents) with lesser petroleum hydrocarbon (i.e., BTEX) contamination. Both types of compounds are potentially biodegraded via microbially mediated geochemical reactions that occur under favorable geochemical conditions. The aquifer's geochemistry, particularly its oxidation-reduction state (redox), is inherently linked to the potential for natural biodegradation.

Fuel hydrocarbons, primarily the BTEX compounds, are susceptible to biodegradation as long as the electron acceptor supply is not depleted. Given an ample supply, biodegradation typically continues until all the contaminants that are biochemically accessible to microbes are destroyed.

Chlorinated hydrocarbon biodegradation may occur by three different processes: use of the chlorinated hydrocarbon as an electron acceptor, use of the chlorinated hydrocarbon as an electron donor, or by co-metabolism, a fortuitous degradation of the chlorinated hydrocarbon by an enzyme catalyst that is produced by microbes for other purposes such that the degradation provides no benefit to the microbial population. The most common of these processes is that of reductive dechlorination (or reductive dehalogenation), whereby the chlorinated hydrocarbon is used as an electron acceptor, not as a carbon source, and a chlorine atom is removed and replaced with a hydrogen atom. This process is limited by electron donor supply. Typically, electron donors are naturally occurring organic carbon, anthropogenic carbon, or fuel hydrocarbons. As a result, the success of reductive dechlorination is tied to numerous geochemical dynamics, rendering the predictability of reductive dechlorination difficult.

5.5.2 Objectives of Evaluation

During the March 2003 re-sampling event, natural attenuation parameters were collected at 13 well locations at OU 2 for providing an initial evaluation of the biodegradation potential. These wells were chosen on the basis of either historical VOC concentrations or their location along representative groundwater flowpaths, and were targeted to provide information on a) upgradient positions, b) historical source areas, and c) downgradient positions.

For chlorinated solvent compounds, the EPA's *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater [Technical Protocol]* (EPA, 1998) defines three lines of evidence to be used to determine the potential for natural attenuation.

1. Historical groundwater data that demonstrates a decreasing trend in contaminant mass or concentration over time along representative groundwater flowpaths.

2. Geochemical data that demonstrate indirectly the active natural attenuation mechanisms at the site and may be used to estimate the rates at which these processes will reduce contaminants to regulatory levels.

3. Data from microcosm studies that directly demonstrates the occurrence of a specific natural attenuation mechanism at the site and its ability to degrade the contaminants of concern.

This assessment focuses on evaluating the first two lines of evidence via the evaluation of VOC data and geochemical/natural attenuation parameters. The third line of evidence is rarely utilized because of its relatively high costs and unnecessary level of sophistication required for a preliminary analysis of NA potential.

5.5.3 NA Parameters

Because reductive dechlorination is typically electron donor limited, the geochemical data analysis focuses on the presence and/or absence of potential electron acceptors. Microbes initially utilize dissolved oxygen as the primary electron acceptor. Once DO is depleted and an ample supply of carbon remains available for donating electrons, anaerobic microbes utilize additional electron acceptors, if available, in a generally preferred order of nitrate, ferric iron (iron III), sulfate, and carbon dioxide. Therefore, an electron acceptor's concentration, or inferentially, that of its corresponding redox couple (i.e., ferrous iron in the case of ferric iron), provides valuable information regarding the potential for reductive dechlorination in the aquifer. Table 19 summarizes the NA parameters collected during the 2003 re-sampling, their methods, and geochemical rationale. Note that all dissolved gases other than DO were collected in the field using a low flow bubbler apparatus.

Well Locations and Flowpaths

All wells chosen for NA sampling are identified in Figure 5 shown previously. Background geochemistry was obtained from 30GS15. The remaining 12 wells were selected based on either historic VOC contamination or location within a groundwater flowpath along which NA might be occurring. These 12 wells are divided as follows:

- Five locations in the northern portion of Sites 11 and 12. Three of these lie along a single, shallow groundwater flowpath defined by 12GS01 (upgradient and historically non-detect for VOCs), 11GS05 (an intermediate flowpath location with a

few low but detectable VOCs), and 11GS47 (a downgradient location with historically high VOCs; see Figure 2). Additionally, a neighboring shallow/intermediate well pair, 11GS07 and 11GI08, were monitored due to their general downgradient positioning, although neither had historic VOC detections.

- Seven locations in Site 30 and one location in Site 27.

  1. Four locations, two for intermediate and shallow groundwater respectively, lie in the western to central portion of Site 30. For intermediate zone groundwater, 30GI132A was chosen due to its upgradient location and historic but low VOC detections, and 27GI06 was selected due to its general downgradient positioning (see Figure 3). A shallow groundwater flowpath starting at 30GS22 (upgradient and historic VOC detections and exceedances) and continuing to 30GS27 (downgradient with historic VOC detections and exceedances) was also monitored.

  2. The three remaining Site 30 locations lie in the southern portion of Site 30. The shallow/intermediate well pair, 30GS170/30GI170, was selected as upgradient locations with historic but low VOC concentrations. 30GS123 was selected as a general downgradient monitoring location due to its positioning near the likely surface water discharge point.

Preliminary Screening

The NA parameters and VOC data were used to qualitatively screen the potential for natural attenuation at each well location using the ranking system outlined in the *Technical Protocol*. While the ranking is a valuable tool in determining the overall potential at each well location, it is important to remember that for MNA to be a viable remedial strategy, ample evidence of biodegradation must be seen along a groundwater flowpath (i.e., from contaminated well locations to downgradient clean wells).

The ranking system assigns points to various geochemical lines of evidence that are indicative of reductive dechlorination. For instance, DO concentrations below 0.5 mg/L are indicative of anaerobic conditions, which are highly favorable for reductive dechlorination of parent compounds such as PCE and TCE. Therefore, well locations with DO < 0.5 mg/L are given 1 point. The *Technical Protocol* details the point system for each geochemical parameter. The sum of all points for a given well are compared to ranges that correspond to an interpretative and qualitative assessment of the potential for reductive dechlorination of chlorinated organic compounds, as follows:

- 0-5 points → Inadequate evidence
- 6-14 points → Limited evidence
- 15-20 points → Adequate evidence
- > 21 points → Strong evidence

The ranking for all 13 wells is provided in Table 20. The number of wells for each category of NA potential was determined to be:

- Strong (1)
- Adequate (3)
- Limited (3)
- Inadequate (6)

Three of the four locations with adequate or strong potential are also locations with VOC GCTL exceedances — 11GS47 (adequate), 30GS22 (strong), and 30GI170 (adequate). Table 21 summarizes the basis for the ranking a geochemical summary at each well location with exceedances. It is important to understand that the ranking is only a preliminary evaluation and that oftentimes, conflicting and contradictory findings are encountered regarding specific reductive dechlorination processes. For example, DO data may indicate apparent aerobic conditions despite the presence of daughter products, a highly reducing ORP value, or the potential for iron reduction based on hydrogen gas data.

The four wells with exceedances do not lie along a single groundwater flowpath, are relatively isolated from one another, and monitor different aquifer depths. As a result, the evaluation will focus on the potential for NA at each of the above four locations with exceedances and a preliminary assessment of potential along any representative flowpaths that may include any of the above four locations.

Flowpath Analysis

Geochemical Trends

Flowpath #1 — 30GS22-30GS27

The shallow groundwater potentiometric surface (see Figure 2) indicates that groundwater may be expected to flow from 30GS22 toward 30GS27. This flowpath exhibits parent compounds of both the ethane and ethene chains. The highest VOC concentrations and the only GCTL exceedances (PCE and 1,1-DCA) were detected at the upgradient location, 30GS22. The following summarizes the geochemical findings along the flowpath.

Upgradient (30GS22): Anaerobic, reducing conditions are supported by the following evidence:

- no detectable DO
- reducing ORP (-180 mV)
- limited ferrous iron production
- high sulfide production
- high alkalinity (2X background, indicating high microbial activity)
- hydrogen concentration corresponds to ferric iron reduction range
- co-located daughter products and parent compounds for ethenes and ethanes
- strong evidence of NA potential

Downgradient (30GS27): aerobic and oxidizing conditions are supported by the following evidence:

- elevated DO above 1.5 mg/L
- oxidizing ORP (>150 mV)
- decreasing alkalinity (indicative of decreased biodegradation and microbial activity)
- decreasing ferrous iron production, sulfide production and methane production
- decreased hydrogen concentration (supports the decline in microbial activity)
- inadequate evidence of NA potential

While declining NA potential at the downgradient end of the flowpath is not ideal, VOC concentrations at 30GS27 are considerably lower and no longer exceed GCTLs. Therefore, attenuation mechanisms other than biodegradation appear to be influential in mitigating VOC impacts at this locale.

Flowpath #2 — 12GS01-11GS05-11GS47

Based on the 2003 sampling data, chlorinated solvent and BTEX concentrations increase in the downgradient direction and are greatest at 11GS47. At this location, BTEX and chlorinated ethenes are present. The following summarizes the geochemical findings along the flowpath:

Upgradient (12GS01): Aerobic, non-reducing conditions are supported by the following evidence:

- High DO (2.6 mg/L)
- No detectable ferrous iron
- High nitrate and sulfate concentrations
- oxidizing ORP (137 mV)
- Inadequate evidence of NA potential

For the purposes of this pathway, the geochemical results at 12GS01 may be viewed as background.

Midpoint (11GS05): Anaerobic and reducing conditions are indicated at this location based on the following evidence:

- 0 mg/L DO
- reducing ORP (-113 mV)
- decrease in sulfate concentration and corresponding increase in sulfide concentration (38 times greater than upgradient location)
- high ferrous iron concentration
- high methane concentration
- hydrogen concentration indicating iron (III) reduction is dominant electron acceptor process
- presence of TCE daughter product (cis-1,2-DCE)
- adequate evidence of NA potential

Downgradient (11GS47): Anaerobic and reducing conditions prevail based on the following lines of evidence:

- < 0.5 mg/L DO
- high ferrous iron concentration (equal to 11GS05)
- low sulfate concentration (although no detectable sulfide)
- high methane concentration (6X greater than 11GS05)
- increased hydrogen concentration corresponding to the sulfate reduction range
- co-located daughter products and parent compounds
- strong evidence of NA potential

Although there are some contradictory geochemical data, such as the steady nitrate concentrations along the flowpath despite clear evidence of advanced aquifer redox states (i.e., ferric iron reduction, sulfate reduction and methanogenesis), the overall weight of evidence implies that NA has been an active process along the downgradient portions of this flowpath. The increase in BTEX at the downgradient location has provided an additional carbon source to facilitate reductive dechlorination, which is supported by:

- the increase in daughter products, particularly VC, along the flowpath
- the decline in sulfate concentrations
- the indication of methanogenic conditions along the flowpath

Redox conditions have clearly progressed to methanogenesis, although it is important to note that the high methane concentrations may be somewhat biased by co-located decay of other organic substances in this portion of the former Site 11 Landfill. While continued reductive dechlorination is promising, the flowpath data indicate that limited parent compounds remain insitu and further upgradient. VC concentrations are elevated since VC is typically the least susceptible chlorinated ethene compound to be reduced due to its oxidized state. If no additional source of parent compounds persists for continued reductive dechlorination, the co-located BTEX compounds will no longer serve as electron donors for reductive dechlorination and may be assimilated by the aquifer by other geochemical reactions.

Because VOC concentrations increase in the downgradient direction along the flowpath, estimates of first order biodegradation rates are not possible or practical.

Flowpath #3 — 27GI06-30GI170

Based on the potentiometric surface for the intermediate zone (Figure 3), groundwater flow is generally southeast across Sites 30 and 27. 27GI06 is located generally upgradient of 30GI170, although not directly on a single flowpath. Due to its higher VOC concentrations, 30GI170 may be regarded as the source well, which limits the NA evaluation along this flowpath. The geochemical findings are summarized as follows:

Upgradient (27GI06): borderline anaerobic conditions appear to prevail based upon the following evidence:

- DO at 0.5 mg/L
- Low nitrate
- Low ferrous iron production
- Insignificant sulfide and methane production
- Low alkalinity and hydrogen (suggesting limited microbial activity)
- Low concentrations of parent compounds co-located with daughter compounds (primarily 1,1-DCE)
- Limited evidence for NA potential

Downgradient (30GI170): anaerobic conditions are present based upon the following factors:

- DO less than 0.5 mg/L
- Low nitrate
- Significant ferrous iron production greater than 1 mg/L
- increased sulfide and methane production

- increased alkalinity and hydrogen concentrations (suggesting increased microbial activity)
- high concentrations of parent and daughter compounds
- adequate evidence for NA potential

The high ORP readings at both locations provide contradictory evidence regarding redox conditions. Nonetheless, the increased NA potential at 30GI170 is promising considering the dramatic increases in VOCs. It is worth noting that the pH at this downgradient location is considerably low (5.03) and at the end of the optimal pH range for reductive dechlorination (5-9). Continued attenuation of VOCs at 30GI170 cannot be further evaluated without data from any additional downgradient monitoring wells, and the increase in VOCs at the 30GI170 does not allow for determination of first order biodegradation rates.

Biodegradation Rate Estimation

As an additional line of evidence for the potential of NA, a conservative tracer such as trimethylbenzene or chloride may be used to estimate biodegradation rates along representative groundwater flowpaths. However, this estimation is only valid if the flowpath reveals decreasing VOC trends in the downgradient direction. Therefore, this exercise was limited to the only flowpath that meets this criteria, flowpath #1 (30GS22-30GS27).

The procedure attempts to normalize the influence of any other attenuation mechanisms, such as dispersion and dilution, from the flowpaths so that effects related solely to biodegradation may be assessed. No trimethylbenzene data was available from the 2003 sampling data, so chloride was used as the conservative tracer. Although chloride may not be an ideal tracer in this geologic environment due to the deposition of coastal sediments, its use is justified if the monitoring locations along the flowpath exhibit chloride concentrations below background (40 mg/L in shallow and intermediate groundwater based on 30GS15 and 30GI132A, respectively). This is the case at 30GS22 and 30GS27.

In order to estimate the amount of a contaminant that would be expected to remain at two points along a flowpath if biodegradation were the only attenuation process that reduces contaminant concentrations, the measured concentrations of a tracer and contaminant are required from a minimum of two points along the flowpath. This estimation is based on the presumption that the tracer and contaminant concentration are equally influenced by non-biodegradation attenuation mechanisms (dilution, sorption, and dispersion) but that the tracer is unaffected by biodegradation, unlike the contaminant. The expected downgradient concentration ($C_{B,COR}$) of a contaminant that is influenced solely by biodegradation along two points (A and B) in a flowpath is:

$$C_{B,COR} = C_B\left(\frac{T_A}{T_B}\right) \qquad (1)$$

where C_B is the contaminant concentration at the endpoint of the flowpath, T_A is the tracer concentration at the upgradient location, and T_B is the tracer concentration at the end of the flowpath. This exercise allows the estimation of theoretical VOC concentrations that result solely from biodegradation at any point along a flowpath by using the measured contaminant concentration at the origin and the dilution of the tracer along the flowpath. The resulting normalized VOC concentrations may then be used for estimation of the first order biodegradation decay rate.

The normalization procedure includes the summation of inorganic chloride detected at each location and organic chlorine associated with the organic solvent compounds. The contribution of organic chlorine is determined by multiplying the concentration of a chlorinated organic compound, such as TCE, by the mass fraction of chlorine in the molecule. Total chlorine is then the sum of all chlorine associated with each chlorinated organic compound plus inorganic chloride.

The total chlorine and chloride determination for 30GS22, the upgradient location, is shown in Table 22.

The contribution to total chloride from organic chloride is nominal at the low concentrations of VOCs detected at OU-2. Because total VOCs at the downgradient location, 30GS27, were less than about 5 ppb, only the inorganic chloride concentration was used (20 mg/L) for equation 1.

The VOCs normalized along the flowpath were PCE, cDCE, TCA, and DCA because they are present at concentrations above 5 ppb at the upgradient and downgradient locations. Table 23 presents the normalized concentrations at the downgradient location, 30GS27, that were computed from equation (1) using the values of 25.19 mg/L for T_A and 20 mg/L for T_B. The 21% decline in Cl at the downgradient point represents the loss of mass due to other, non-destructive attenuation mechanisms.

With the normalized concentrations determined, the theoretical concentration of any contaminant along the flowpath that may result from biodegradation may be estimated. The first order decay rate for biodegradation is estimated by the following expression:

$$C_{B,COR} = C_A e^{-\lambda t} \qquad (2)$$

where C_A is the contaminant concentration at upgradient point A, □is the first-order biodegradation rate constant (1/T), and t is the contaminant travel time between points A and B. To solve for the unknown, λ, the equation is rearranged as,

$$\lambda = -\frac{\ln\left(\frac{C_{B,COR}}{C_A}\right)}{t} \qquad (3)$$

where t is determined by the expression (x/v_c) where x is the distance between points A and B and v_c is the retarded contaminant velocity in groundwater, or the seepage velocity (v_x) divided by R, the retardation factor for the contaminant of interest.

Required in this evaluation are several assumptions and intermediate calculations, which are presented in Table 24 and its following notes.

These decay rate estimates are relatively high due to the rapid attenuation of these VOCs over the short flowpath distance of only 180 ft. Because biodegradation is inherently linked to aquifer redox dynamics, these promising results should be verified with additional sampling should MNA be determined to be a part of the overall site remedy.

Biodegradation of Petroleum Hydrocarbons

As with reductive dechlorination of chlorinated hydrocarbons, petroleum hydrocarbon biodegradation requires the presence of one or more terminal electron acceptors (DO, nitrate, ferric iron, sulfate, or carbon dioxide) for microbial respiration. Unlike reductive dechlorination, petroleum hydrocarbon degradation is limited by electron acceptor supply. Assuming that appropriate indigenous microorganisms are present, the order in which they are utilized generally depends upon the relative amount of energy that can be derived from each electron acceptor. Under ideal conditions, the degradation of petroleum constituents utilizes electron acceptors in the following order (keeping in mind that groundwater situations are very rarely ideal and some of these processes are known to occur simultaneously in the same vicinity):

DO > Nitrate > ferric iron > sulfate > carbon dioxide

The significance of each of these electron acceptors for petroleum hydrocarbon biodegradation is described below.

Dissolved Oxygen (DO)

DO is the most thermodynamically favored electron acceptor in fuel biodegradation. DO concentrations can be used to estimate the mass of contaminant that can be degraded. Stoichiometrically, 1.0 mg/L of DO can destroy approximately 0.32 mg/L of BTEX. However, this is a conservative estimate and does not take into account the production of cell mass. Realistically, 1.0 mg/L could degrade 0.97 mg/L of BTEX (AFCEE, 1995). As fuel contaminants

degrade, the DO in contaminated wells reduces compared to that in background wells that are free of contamination. This difference between DO in background and contaminated wells provides a tool to estimate the biodegradable (assimilative) capacity of the groundwater via the following equation:

$$BTEX_{(Bio,\ DO)} = 0.97\ (O_B - O_M) \qquad (5)$$

where

$BTEX_{(Bio,\ DO)}$ = reduction in BTEX concentration via aerobic respiration

0.97 = mg/L BTEX degraded per mg/L DO consumed in accordance with stoichiometric relationships

O_B = background DO (mg/L)

O_M = lowest measured DO (mg/L) at plume well

Nitrate

After DO has been depleted in the microbiological treatment zone, nitrate may be used as an electron acceptor for anaerobic degradation via denitrification. Stoichiometrically, each mg/L of nitrate can reduce 0.21 mg/L of BTEX in groundwater. Similar to computations used for DO, the following equation can be used to estimate the mass of BTEX degraded via denitrification.

$$BTEX_{(Bio,\ N)} = 0.21\ (N_B - N_M) \qquad (6)$$

where

$BTEX_{(Bio,\ N)}$ = reduction in BTEX concentration via denitrification

0.21 = mg/L BTEX degraded per mg/L nitrate consumed in accordance with stoichiometric relationships

N_B = background nitrate (mg/L)

N_M = lowest measured nitrate (mg/L) at plume well

Iron (II)

Iron (III) can also be used as an electron acceptor during anaerobic degradation of petroleum hydrocarbons. During this process, iron (III) is reduced to iron (II). Iron (II) concentrations in groundwater can then be used as an indicator of anaerobic degradation of fuel compounds. Also, a comparison of iron (II) in background versus plume wells can be used to estimate the mass of contaminant that could possibly be degraded via iron reduction. The following equation can be used to make the estimate:

$$BTEX_{(Bio,\ Fe)} = 0.05\ (Fe_M - Fe_B) \qquad (7)$$

where

$BTEX_{(Bio,\ Fe)}$	=	reduction in BTEX concentration via iron reduction
0.05	=	mg/L BTEX degraded per mg/L iron (II) produced in accordance with stoichiometric relationships
Fe_B	=	background Iron (II) (mg/L)
Fe_M	=	highest measured Iron (II) (mg/L) at plume well

Sulfate

Sulfate can be used as an electron acceptor under reducing conditions, resulting in the production of sulfide. Stoichiometrically, each mg/L of sulfate can reduce 0.21 mg/L of BTEX in groundwater. Similar to computations used for DO, the following equation can be used to estimate the mass of BTEX degraded via sulfate reduction.

$$BTEX_{(Bio,\ S)} = 0.21\ (S_B - S_M) \qquad (8)$$

where

$BTEX_{(Bio,\ S)}$	=	reduction in BTEX concentration via sulfate reduction
0.21	=	mg/L BTEX degraded per mg/L sulfate consumed in accordance with stoichiometric relationships
S_B	=	background sulfate (mg/L)
S_M	=	lowest measured sulfate (mg/L) in plume well

Methane

Methane is an end-product of the anaerobic process known as methanogenesis. Carbon dioxide is used as the electron acceptor in this process. This process flourishes when an aquifer is highly reducing or anaerobic, but may also occur to some degree concurrently with nitrate-reduction, iron-reduction, or sulfate-reduction. A comparison of background versus plume wells can be used to estimate the mass of contaminant that could possible be degraded via methanogenesis. The following equation can be used to make the estimate:

$$BTEX_{(Bio,\ M)} = 1.28\ (M_M - M_B) \qquad (9)$$

where

$BTEX_{(Bio,\ Me)}$	=	reduction in BTEX concentration via methanogenesis
1.28	=	mg/L BTEX degraded per mg/L methane (mg/L) produced in accordance with stoichiometric relationships
M_B	=	background methane (mg/L)
M_M	=	highest methane (mg/L) in plume well

Assimilative Capacity of BTEX at 11GS47

Using equations 5-9, the aquifer's assimilative capacity to degrade BTEX compounds at 11GS47 may be estimated. This locale has the highest BTEX concentrations of those monitored during the 2003 re-sampling effort and has overall low chlorinated solvent compound detections. Background electron acceptor concentrations were taken from upgradient well 12GS01. Table 25 presents the resulting assimilative capacity for the aquifer at the source well 11GS47.

These results indicate that aquifer's geochemistry at 11GS47 has the capacity to degrade over 11,000 mg/L of BTEX, which exceeds the amount present (approximately 0.25 mg/L). Note that this result is biased by the high methane measured at 11GS47. Methane production is related to the proximity of the Site 11 former landfill and the methanogenic conditions related to organic matter decay. This is fortuitous in that methanogenic conditions may rapidly

degrade BTEX and the more highly chlorinated solvent compounds. If methane concentrations are eliminated from this evaluation due to this potential bias, the assimilative capacity is reduced to 17 mg/L, which still greatly exceeds that measured at this location and those upgradient.

6.0 CONCLUSIONS

A resampling of critical locations for soil and groundwater media at OU2 was conducted in March 2003. The resulting data is used to make determinations with regard to temporal trends in contamination, and to refine the database for pursuing unbiased remedial alternatives analyses.

Metals:

Analysis of nine soil samples demonstrated three exceedances of the SCTLs (at two locations), two for chromium, one for arsenic, and two areas that may indicate a potential leachability problem. Analysis of 35 groundwater samples indicated 14 exceeedances of the GCTLs (at 13 locations) for metals other than iron, manganese, and aluminum (three metals that are ubiquitous in NASP groundwater above their GCTLs).

Since 1993/1995, there has been a general decrease in soil contamination. In groundwater, in summary (including aluminum, iron, and manganese), 18 locations exhibited fewer exceedances, 11 exhibited higher, and one exhibited the same. The number of exceedances dropped from 70 to 43, and of the 43 — 2003 exceedances, 26 were higher than 1993/95, 16 were lower, and one could not be determined (1993/95 detection limits were lower than CTL).

The data indicate there continues to be a soil leachability problem at Site 11. For groundwater, the data indicate that migration to surface water continues to be a problem to wetlands 5A and 5B, 6, and 7 for a number of metals, including cadmium, chromium, iron, and manganese.

Pesticides/PCBs:

Analysis of three soil samples and two groundwater samples did not yield exceedances of any CTLs. Since 1993/1995, there has been a decrease in both soil and groundwater concentrations. The data does not indicate a continuing problem with respect to the soil-to-groundwater pathway nor the groundwater-to-surface water pathway.

SVOAs:

Analysis of six soil samples did not yield exceedances of the SCTLs. Analysis of 26 groundwater samples yielded 18 exceedances (at seven locations) of the GCTLs.

Since 1993/1995, there has been a decrease in soil contamination. In groundwater, in summary, five locations exhibited fewer 2003 exceedances than 1993/95, three exhibited higher, and three exhibited the same. The total number of exceedances remained the same from 1993/95 (18) to 2003 (18). Of 19-2003 exceedances, 11 had concentrations that went up, six had concentrations that went down, and one could not be determined (that parameter was not analyzed for in 1993/95).

The soil data indicate there may be a continuing problem with the soil-to-groundwater pathway at isolated locations on Sites 11 and 27. The groundwater data indicate that there continues to be a problem with respect to the groundwater-to-surface water pathway at Site 11 (Wetland 6 and 7), the southeast corner of Site 30 (Wetland 5B and 6), and Site 30 near Wetland 5A and 5B.

VOAs:

Analysis of 17 soil samples yielded three exceedances (at one location) of the SCTLs, and one location demonstrated a concentration equal to the SCTL. Analysis of 64 groundwater samples yielded 47 exceedances (at 22 locations) of the GCTLs.

Since 1993/1995, there has been a significant downward trend in soil contamination. For groundwater, in summary, 26 locations exhibited a fewer number of exceedances in 2003, seven exhibited a higher number, and five exhibited the same. The total number of exceedances dropped from 101 to 46. Of the 46 - 2003 exceedances, 25 were lower in 2003 than 1993/95, 17 were higher, and four could not be determined (due to higher detection limits in 1993/95).

The soil data indicate there is not a continuing problem with the soil-to-groundwater pathway. The groundwater data indicate there continues to be a problem with respect to the

groundwater-to-surface water pathway on OU2 on Site 30 [30GS111/30GI111 (adjacent to the southern end of Wetland 6), 30GS18 (adjacent to Wetland 5A), 30GS06 (adjacent to Wetland 5A), 30GI170 (adjacent to Wetland 5B)] and Site 11 [11GS52 (adjacent to the central portion of Wetland 6), 11GI114 (adjacent to the northern portion of Wetland 6), 11GI12 (adjacent to the northern portion of Wetland 6) , 11GI10 (adjacent to the southern portion of Wetland 7), and 11GS47 and 11GS28 (both adjacent to Wetland 7)].

A preliminary evaluation on the potential for natural attenuation of contamination focused on thirteen individual wells and three flowpaths. For two of the pathways (12GS01 -> 11GS05 -> 11GS47, and 27GI06 -> 30GI170), VOC concentrations increased in the downgradient direction; although the results indicate a strong potential for NA at the downgradient wells, additional data would need to be collected even further downgradient to validate NA as a viable alternative. The third flowpath (30GS22 -> 30GS21) indicated very promising results with regard to reduction of chlorinated compounds, but that data would need to be validated with additional sampling as well if NA is determined to be a part of the remedial strategy. Calculation of the system's ability to degrade BTEX compounds at well 11GS47 (the location with the highest BTEX concentrations) also showed promise, and indicated that the degradation capacity was as high as 17 mg/L BTEX at well 11GS47 (the well with the highest BTEX concentrations of all wells sampled for NA parameters). It is important to note that a number of wells on Sites 11 and 30 lie immediately adjacent to surface water bodies, and have concentrations above appropriate GCTLs for protection of surface water; this should be considered when developing and evaluating alternatives for OU2.

It is recommended that the data included in this addendum be incorporated into a Feasibility Study. It is also recommended that additional attention is warranted in the area of location 30GS111/30GSI111, in the southeastern corner of Site 30 to ascertain the source of groundwater contamination there. As it falls on the eastern side of a local groundwater divide (as marked by Wetland 6), it is likely that the source is to the east of the OU2. This area can, for the purpose of the Feasibility Study, be "split" from the rest of the OU, which is located adjacent to Wetland 6.

7.0 FLORIDA PROFESSIONAL GEOLOGIST SEAL

I have read and approve of this Remedial Investigation Report Addendum, Operable Unit 2, Naval Air Station Pensacola, Florida and seal it in accordance with Chapter 492 of the Florida Statutes. In sealing this document, I certify the geological information contained in it is true to the best of my knowledge and the geological methods and procedures included herein are consistent with currently accepted geological practices.

Name:	Brian Caldwell
License Number:	#1330
State:	Florida
Expiration Date:	July 31, 2004

B Caldwell

Brian Caldwell

7/27/04

Date

Table 1 March 2003 Water Levels								
Original Well ID	**Alias**	**TOC elev**	**Date**	**DTW**	**ELEV**	**Date**	**DTW**	**ELEV**
11GM15	GM15	6.95	3/11/2003	4.49	2.460	3/12/2003	4.56	2.39
11GM26	GM26							
11GM28	GM28	10.47	3/11/2003	8.02	2.453	3/12/2003	9.89	0.58
11GM36	GM36	7.18						
11GM46	GM46	9.42						
11GM47	GM47	7.34	3/11/2003	5.38	1.964	3/13/2003	5.3	2.04
11GM48	GM48	8.37						
11GM49	GM49	9.55						
11GM50	GM50							
11GM51	GM51	4.19	3/11/2003	2.46	1.733			
11GM52	GM52	5.04	3/11/2003	3.91	1.129			
11GI02		10.31	3/11/2003	8.09	2.224	3/12/2003	9.18	1.13
11GI04		11.45	3/11/2003	8.82	2.628	3/12/2003	8.85	2.60
11GI06		10.46						
11GI08		7.05	3/11/2003	5.68	1.365			
11GI10		5.01	3/11/2003	3.31	1.703	3/16/2003	3.43	1.58
11GI12		6.27	3/11/2003	5.19	1.081	3/14/2003	4.76	1.51
11GI14		5.45	3/11/2003	4.07	1.381			
11GI15		7.48	3/11/2003	6.82	0.658	3/13/2003	5.62	1.86
11GS01		9.89						
11GS03		11.21	3/11/2003	8.67	2.541			
11GS05		10.34	3/11/2003	7.27	3.067	3/13/2003	6.52	3.82
11GS07		6.28	3/11/2003	3.04	3.242			
11GS09		5.01	3/11/2003	3.23	1.782	3/16/2003	3.1	1.91
11GS11		6.28	3/11/2003	4.75	1.530			
11GS13		5.48	3/11/2003	4.13	1.353			
12GS01		17.81				3/13/2003	14.64	3.17
12GS06		18.22				3/12/2003	15.16	3.06
12GS08		18.34				3/12/2003	14.85	3.49
12GS09		16.85				3/12/2003	13.71	3.14
12GS10		17.04				3/12/2003	14.2	2.84
12GS14		16.96				3/12/2003	13.9	3.06
12GS17						3/19/2003	14.24	-14.24
25GM55	GM55							
25GM58	GM58							
25GI01	25S08 (BORING)	19.21				3/17/2003	13.97	5.24
25GI02	25S14 (BORING)	20.76				3/17/2003	14.98	5.78
25GS01	25S01 (BORING)	26.24				3/17/2003	21.39	4.85
25GS02	25S02 (BORING)	24.74						
25GS03	25S04 (BORING)	20.23						
25GS04	25S07 (BORING)							
25GS05	25S10 (BORING)							
25GS06	25S11 (BORING)	20.56						
25GS07	25S05 (BORING)	23.60						
25GS08	25S12 (BORING)	21.01						
25GS09	25S13 (BORING)	19.18						
29GM07	GM07	8.59						
27GD01	GM54	23.43						
27GI01	27S16 (BORING)	22.69						
27GI02	27S18 (BORING)	27.88				3/18/2003	20.03	7.85

Table 1 March 2003 Water Levels								
Original Well ID	**Alias**	**TOC elev**	**Date**	**DTW**	**ELEV**	**Date**	**DTW**	**ELEV**
27GI03	27S19 (BORING)	25.38						
27GI04	27S25 (BORING)	23.75				3/16/2003	18.3	5.45
27GI05	27S27 (BORING)	25.27						
27GI06	27S49 (BORING)	27.21				3/14/2003	19.81	7.40
27GS01	27S01 (BORING)	26.06				3/19/2003	17.25	8.81
27GS02	27S02 (BORING)	27.71				3/18/2003	18.9	8.81
27GS03	27S03 (BORING)	27.22						
27GS04	27S04 (BORING)	22.51				3/17/2003	15.87	6.64
27GS05	27S05 (BORING)	23.90				3/17/2003	17.91	5.99
27GS06	27S06 (BORING)	24.18				3/17/2003	17.71	6.47
27GS07	27S10 (BORING)	25.45						
27GS08	27S20 (BORING)	25.28						
27GS09	26S26 (BORING)	25.07						
27GS10	27S41 (BORING)	25.47				3/17/2003	17.75	7.72
27GS11	27S48 (BORING)	27.16				3/19/2003	18.76	8.40
27GS12	GM02	24.39						
27GS13	ABB MW-1	24.74						
27GS14	ABB MW-5	25.06						
27GS15	ABB MW-6	24.80						
27GS16	ABB MW-4	25.40						
27GS17	ABB MW-2	25.36				3/19/2003	17.42	7.94
27GS18	ABB MW-8	25.32				3/19/2003	14.36	10.96
27GS19	ABB MW-10	25.40				3/19/2003	17.74	7.66
27GS20	ABB MW-9	25.39				3/19/2003	17.39	8.00
27GS21	ABB MW-11	25.27				3/19/2003	17.58	7.69
30GI07	30WI07	26.68						
30GI09	30WI09	29.22						
30GI19	30WI19	16.13				3/18/2003	9.31	6.82
30GI58	30WI58	30.77						
30GI60		27.16						
30GI111	30WI111	9.47				3/17/2003	7.4	2.07
30GI113	30WI113	9.56				3/14/2003	8.43	1.13
30GI126	30WI126	11.84				3/18/2003	8.23	3.61
30GI164	ABB MW02D 3220E	24.15				3/16/2003	20.1	4.05
30GI170	ABB MW9D 3220S	22.73				3/13/2003	18.21	4.52
30GS05	30WS05 (BORING)	20.32				3/18/2003	15.4	4.92
30GS06	30WS06 (BORING)	26.57				3/18/2003	16.25	10.32
30GS11		27.96				3/18/2003	17.3	10.66
30GS12		29.05						
30GS15		31.50				3/14/2003	21.85	9.65
30GS18		16.65				3/18/2003	9.56	7.09
30GS20		18.88				3/18/2003	12.71	6.17
30GS22	ABB MW9 649N	28.83				3/14/2003	19.39	9.44
30GS24	ABB MW-8 649N	26.37						
30GS26	ABB MW-6 649N	27.23						
30GS27	ABB MW-5 649N	26.88				3/14/2003	18.57	8.31
30GS28	ABB MW7 649N	27.02				3/15/2003	18.65	8.37
30GS29	ABB MW1 649W	26.45						
30GS32	ABB MW4 649W	27.75						
30GS32A		27.92				3/14/2003		

Table 1 March 2003 Water Levels								
Original Well ID	**Alias**	**TOC elev**	**Date**	**DTW**	**ELEV**	**Date**	**DTW**	**ELEV**
30GS33	ABB MW2 649W	27.49				3/18/2003	18.4	9.09
30GS37	ABB MW7 647E	26.41						
30GS39	ABB MW3 647N	30.05						
30GS44	ABB MW-3 648N	28.35						
30GS46	ABB MW-4 648N	27.93				3/18/2003	18.54	9.39
30GS49	ABB MW-6 648N	27.56						
30GS50	ABB MW-7 648N	27.76						
30GS51	ABB MW-8 648N	26.34				3/18/2003	17.35	8.99
30GS52	ABB MW-9 648N	26.37						
30GS56	ABB MW3 649N	26.39						
30GS57		30.77						
30GS59	30WS59	26.88						
30GS61	30WS61	27.81						
30GS62	30WS62	22.87						
30GS101	30WS101	8.28	3/11/2003	6.18	2.104			
30GS103	30WS103	7.52	3/11/2003	5.61	1.909	3/13/2003	5.72	1.80
30GS105	30WS105	7.04	3/11/2003	5.3	1.735	3/14/2003	4.93	2.11
30GS108	30WS108	7.83						
30GS111	30WS111	9.44				3/17/2003	7.32	2.12
30GS113	30WS113	9.20				3/14/2003		
30GS118	30WS118	6.72						
30GS123	30WS123	8.87				3/14/2003	6.96	1.91
30GS126	30WS126	11.94				3/15/2003	8.2	3.74
30GS146		25.42				3/15/2003	22.82	2.60
30GS154	30WS154	22.70						
30GS156		18.34						
30GS157	ABB MW5 3450S	20.19						
30GS160	ABB MW2 3450S	19.93						
30GS161	ABB MW4 3450S	20.67						
30GS162	ABB MW05 3220E	24.93				3/16/2003	20.9	4.03
30GS164	ABB MW01 3220E	24.40						
30GS165	ABB MW03 3220E	24.29						
30GS166	ABB MW07 3220E	25.29						
30GS168	ABB MW03 3220S	23.66						
30GS170	ABB MW02 3220S	23.20				3/13/2003	18.37	4.83
30GS171	ABB MW7 3220S	21.12						
30GS172	ABB MW06 3220S	23.27						
30GS173	ABB MW8 3220S	21.37						

Notes:

DTW = depth to water

All elevations in feet above Mean Sea Level

Table 2
Summary of Soil Metals, OU2, 2003 RI Addendum, NASP

			SAMPLE ID-->	011S001506				011SLF1206				011SLF5S01				012S000705				012S000805			
		SCTLs (ppm)		1993		2003		1993		2003		1993		2003		1993		2003		1993		2003	
PARAMETER	Leachability	Residential Exposure	NASP Reference	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aluminum	*	72000.00	3833.00	5800.0000		2000.0000		486.0000		890.0000		4740	J	3700.0000		3360	J	1500.0000		1700	J	440.0000	
Antimony	5	26.00	9.49	6.2000	U	0.6400	U	6.1000	U	0.3900	U	6.6	U	0.4200	U	2.8	U	0.3700	U	0.52	J	0.3900	U
Arsenic	29	0.80	1.56	1.5000	J	0.7500	J	1.1000	J	0.4000	U	3.8	UJ	**2.5000**		0.67	UJ	0.5100	J	0.65	U	0.4000	U
Barium	1600	110.00	4.63	8.2000	U	9.7000		13.6000	J	5.1000		134		34.0000		12.1	J	3.5000		6.9	J	2.2000	
Beryllium	63	120.00	0.41	0.2100	U	0.0380	J	0.2000	U	0.0100	U	0.22	U	0.0910	J	0.08	J	0.0097	U	0.04	U	0.0100	U
Cadmium	8	75.00	1.00	7.4000		0.2900	J	6.4000		3.6000		**23.3**	J	5.4000		**10.4**		0.6400		6.8		1.3000	
Calcium	NA	NA	912.37	60900.0000		2600.0000		306.0000	J	470.0000		3950		1300.0000		10000		4500.0000		3160	J	46.0000	J
Chromium	38 (hex)	210.00	6.13 (non hex species)	12.4000		**48.0000**		3.0000		2.9000		**1610**	J	**270.0000**		13.1		3.8000		8.7	J	2.0000	
Cobalt	*	4700.00	1.87	4.1000	U	0.2300	J	4.1000	U	0.0720	U	4.4	U	0.5000	J	0.51	J	0.1500	J	0.53	J	0.0720	U
Copper	*	110.00	5.74	4.2000	J	3.6000		2.0000	UJ	3.1000		50		22.0000		89		5.9000		32.5		0.4100	J
Cyanide	40	30.00	0.52	6.2000		na		1.2000	U	na		1.2	U	na		0.53	U	na		0.51	U	na	
Iron	*	23000.00	2745.00	4480.0000		1200.0000		334.0000	J	490.0000		5980	J	5000.0000		4090		1400.0000		1660	J	380.0000	
Lead	*	400.00	7.32	16.9000		24.0000		407.0000		200.0000		790	J	160.0000		133		8.8000		63.6	J	0.4600	J
Magnesium	NA	NA	133.33	514.0000	U	260.0000		34.7000	U	23.0000	J	451	U	220.0000		1080		220.0000		76.8	J	18.0000	J
Manganese	*	1600.00	21.36	119.0000		10.0000		2.6000	U	10.0000		65.5		41.0000		49.4		11.0000		15.5	J	1.2000	
Mercury	2.10	3.40	0.10	0.0900	U	0.0130	J	0.1000	J	0.0160	J	0.13		0.0690		0.92		0.0630		0.11		0.0049	J
Nickel	130.00	110.00	6.38	4.1000	U	0.8800	J	4.1000	U	0.3800	J	6.2	J	2.1000	J	2	J	0.7200	J	1.8	J	0.1700	J
Potassium	NA	NA	460.67	205.0000	U	81.0000	J	203.0000	U	13.0000	J	219	U	68.0000	J	84.7	J	21.0000	J	37.1	J	16.0000	J
Selenium	5.00	390.00	0.62	0.4100	U	0.7200	U	0.4400	U	0.4400	U	0.62	J	0.4800	U	0.93	U	0.4200	U	0.9	U	0.4400	U
Silver	17.00	390.00	2.07	1.2000	J	0.1700	U	1.0000	U	0.1000	U	5.8		0.6500	J	0.11	U	0.0970	U	0.1	U	0.1000	U
Sodium	NA	NA	107.85	489.0000	U	79.0000	J	40.5000	U	34.0000	U	43.9	U	61.0000		326	J	37.0000	J	185	U	30.0000	U
Thallium	NA	NA	0.82	0.4100	U	1.1000	U	0.4400	UJ	0.6800	U	0.41	U	0.7400	U	0.95	U	0.6400	U	0.92	U	0.6800	U
Vanadium	980.00	15.00	5.83	11.0000		4.0000		2.0000	U	1.0000		11.5		12.0000		4.3	J	2.7000		2.4	J	0.4400	J
Zinc	6000.00	23000.00	16.87	8.9000	U	8.3000		15.8000	U	7.6000		157	J	68.0000		541	J	17.0000		66		5.3000	

Notes:
all results in ppm
* = Develop via SPLP
NA = not applicable
na = not analyzed
BOLD indicates an exceedance of higher of SCTL or NASP Reference
U = not detected
J = present below the method detection limit but above the instrument detection limit
011SLF5S01 (a surface soil sample) was screened against Residential Exposure SCTLs.

Table 2
Summary of Soil Metals, OU2, 2003 RI Addendum, NASP

			SAMPLE ID-->	012S000905				012S001005				012S001305				012S001610			
		SCTLs (ppm)		1993		2003		1993		2003		1993		2003		1993		2003	
PARAMETER	Leachability	Residential Exposure	NASP Reference	Results		Results		Results		Results		Results		Results		Results		Results	
Aluminum	*	72000.00	3833.00	748	J	2000.0000		4000	J	6600.0000		1590	J	870.0000		14800	J	1400.0000	
Antimony	5	26.00	9.49	1.8	UJ	0.6900	J	0.39	UJ	0.4400	U	0.4	UJ	0.4500	U	**11.4**	J	0.4100	U
Arsenic	29	0.80	1.56	0.65	UJ	0.8200	J	0.65	U	1.7000		0.67	UJ	0.4600	U	4.7		0.4200	U
Barium	1600	110.00	4.63	10.6	J	18.0000		7.4	J	5.7000		6.7	J	3.7000		28.7	J	2.2000	
Beryllium	63	120.00	0.41	0.04	U	0.0170	J	0.04	U	0.0460	J	0.04	U	0.0120	U	0.27	U	0.0110	U
Cadmium	8	75.00	1.00	**13.9**	J	6.7000		**66.5**		1.9000		**11.3**	J	4.0000		**243**		0.0430	U
Calcium	NA	NA	912.37	2040		12000.0000		2770	J	1700.0000		2830		82.0000		55800	J	140.0000	
Chromium	38 (hex)	210.00	6.13 (non hex species)	10.8		10.0000		8.4	J	5.8000		8.1		1.7000		**203**	J	1.4000	
Cobalt	*	4700.00	1.87	0.41	J	0.4100	J	0.46	J	0.2600	J	0.2	J	0.1200	J	3.7	J	0.2300	J
Copper	*	110.00	5.74	133	J	38.0000		26.8		2.4000		6.3	J	1.3000	J	515		0.8000	J
Cyanide	40	30.00	0.52	0.52	U	na		0.53	U	na		0.53	U	na		0.52	U	na	
Iron	*	23000.00	2745.00	3040		4900.0000		3540	J	4200.0000		1320		590.0000		42600	J	1300.0000	
Lead	*	400.00	7.32	74		96.0000		36	J	4.4000		7.7		0.6900		883	J	1.1000	
Magnesium	NA	NA	133.33	58.7	U	880.0000		89.7	J	110.0000		51.8	U	28.0000	J	811	J	32.0000	J
Manganese	*	1600.00	21.36	29.5		46.0000		37.6	J	47.0000		22.2		8.3000		375	J	11.0000	
Mercury	2.10	3.40	0.10	1.7		0.0990		0.11	U	0.0130	J	0.1	U	0.0053	J	0.1	U	0.0075	J
Nickel	130.00	110.00	6.38	6.5	J	5.1000		3.5	J	0.9200	J	0.81	J	0.6800	J	50.7		0.6600	J
Potassium	NA	NA	460.67	26.9	U	47.0000	J	66.2	J	41.0000	J	48.9	U	20.0000	J	277	J	25.0000	J
Selenium	5.00	390.00	0.62	0.89	U	0.4000	U	0.9	U	0.5000	U	0.92	U	0.5100	U	2.6	U	0.4600	U
Silver	17.00	390.00	2.07	0.12	J	0.3200	J	0.1	U	0.1200	U	0.1	U	0.1200	U	0.1	U	0.1100	U
Sodium	NA	NA	107.85	181	U	93.0000		177	U	29.0000	U	186	U	29.0000	U	746	J	26.0000	U
Thallium	NA	NA	0.82	0.91	UJ	0.6200	U	0.92	U	0.7600	U	0.94	UJ	0.7800	U	0.93	U	0.7100	U
Vanadium	980.00	15.00	5.83	1	J	2.7000		5.8	J	11.0000		2.4	J	0.8000	J	14.7		1.3000	
Zinc	6000.00	23000.00	16.87	136		150.0000		89.7		7.7000		94.6		17.0000		854		1.5000	J

Notes:
all results in ppm
* = Develop via SPLP
NA = not applicable
na = not analyzed
BOLD indicates an exceedance of higher of SCTL or NASP Reference
U = not detected
J = present below the method detection limit but above the instrument detection limit
011SLF5S01 (a surface soil sample) was screened against Residential Exposure SCTLs.

Table 3
Metals SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTLs (ppm)	SAMPLE ID --> Florida GCTLs (ppb)	011S001506 BULK (ppm)		011S001506 LEACHATE (ppb)		011SLF1206 BULK (ppm)		011SLF1206 LEACHATE (ppb)		011SLF5S01 BULK (ppm)		011SLF5S01 LEACHATE (ppb)	
Aluminum	*	200	*2000.0000*		***450.0000***		*890.0000*		*150.0000*	J	*3700.0000*		***4700.0000***	
Antimony	5	6	0.6400	U	3.8000	U	0.3900	U	3.8000	U	0.4200	U	3.8000	U
Arsenic	29	50	0.7500	J	3.9000	U	0.4000	U	3.9000	U	2.5000		3.9000	U
Barium	1600	2000	*9.7000*		*2.5000*	J	*5.1000*		*60.0000*		*34.0000*		*9.4000*	J
Beryllium	63	4	0.0380	J	0.1000	U	0.0100	U	0.1000	U	0.0910	J	0.1000	U
Cadmium	8	5	0.2900	J	0.4000	U	*3.6000*		***88.0000***		5.4000		0.4000	U
Calcium		an	2600.0000		19000.0000	JH	470.0000		3000.0000	JH	1300.0000		8600.0000	JH
Chromium	38 (hex)	100	***48.0000***		*2.3000*	J	*2.9000*		*1.9000*	J	***270.0000***		*46.0000*	
Cobalt	*	150	0.2300	J	0.7000	U	0.0720	U	0.8000	J	0.5000	J	0.7000	U
Copper	*	1000	3.6000		0.8000	U	3.1000		3.6000	J	*22.0000*		*15.0000*	J
Iron	*	300	*1200.0000*		*100.0000*	JH	*490.0000*		*120.0000*	JH	*5000.0000*		***2500.0000***	JH
Lead	*	15	24.0000		3.3000	J	*200.0000*		***3200.0000***		*160.0000*		***50.0000***	
Magnesium		an	260.0000		1700.0000		23.0000		140.0000	J	220.0000		1400.0000	
Manganese	*	50	10.0000		5.1000	U	*10.0000*	J	*36.0000*	J	*41.0000*		*13.0000*	J
Mercury	2.10	2	0.0130		0.1000	U	0.0160		0.1000	U	0.0690		0.1000	U
Nickel	130.00	100	0.8800	J	1.2000	U	*0.3800*	J	*2.7000*	J	2.1000		1.2000	U
Potassium		an	81.0000	J	130.0000	J	13.0000	J	88.0000	J	68.0000	J	1400.0000	
Selenium	5.00	50	0.7200	J	4.3000	U	0.4400	J	4.3000	U	0.4800	J	4.3000	U
Silver	17.00	100	0.1700	U	1.0000	U	0.1000	U	1.0000	U	0.6500	U	1.0000	U
Sodium		an	79.0000	U	25000.0000	U	34.0000	U	730.0000	U	61.0000	J	31000.0000	JH
Thallium		2	1.1000	J	6.6000	U	0.6800	U	6.6000	U	0.7400		6.6000	U
Vanadium	980.00	53	4.0000	U	7.6000	J	1.0000	U	2.0000	J	12.0000	U	5.6000	J
Zinc	6000.00	5000	8.3000		6.6000	U	*7.6000*		*75.0000*		*68.0000*		*30.0000*	

Notes:
BOLDING in BULK indicates an exceedance of SCTL.
BOLDING in LEACHATE indicates an exceedance of GCTL.
Italics = Soil / Groundwater detection couplet (except for essential nutrients Ca, Mg, K, Na)
U = not detected
J = Detected below the Method Detection Limit and above the Instrument Detection Limit.
H - Bias in sample is likely to be high

Table 3
Metals SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTLs (ppm)	SAMPLE ID --> Florida GCTLs (ppb)	012S000705 BULK (ppm)		012S000705 LEACHATE (ppb)		012S000805 BULK (ppm)		012S000805 LEACHATE (ppb)		012S000905 BULK (ppm)		012S000905 LEACHATE (ppb)	
Aluminum	*	200	*1500.0000*		***3000.0000***		*440.0000*		*150.0000*	*J*	*2000.0000*		***3800.0000***	
Antimony	5	6	0.3700	U	3.8000	U	0.3900	U	3.8000	U	0.6900	J	3.8000	U
Arsenic	29	50	0.5100	J	3.9000	U	0.4000	U	3.9000	U	0.8200	J	3.9000	U
Barium	1600	2000	*3.5000*		*53.0000*		*2.2000*		*1.7000*	*J*	*18.0000*		*12.0000*	
Beryllium	63	4	0.0097	U	0.1000	U	0.0100	U	0.1000	U	0.0170	J	0.1000	U
Cadmium	8	5	0.6400		0.4000	U	1.3000		0.4000	U	6.7000		0.4000	U
Calcium		an	4500.0000		180000.0000	JH	46.0000	J	2200.0000	JH	12000.0000		37000.0000	JH
Chromium	38 (hex)	100	*3.8000*		*25.0000*		*2.0000*		*2.6000*	*J*	*10.0000*		*10.0000*	
Cobalt	*	150	0.1500	J	0.7000	U	0.0720	U	0.7000	U	0.4100	J	0.7000	U
Copper	*	1000	*5.9000*		*6.9000*	*J*	0.4100	J	1.7000	U	*38.0000*		*7.7000*	*J*
Iron	*	300	1400.0000		16.0000	U	380.0000		24.0000	U	4900.0000		16.0000	U
Lead	*	15	8.8000		1.9000	U	0.4600		1.9000	U	96.0000		1.9000	U
Magnesium		an	220.0000		75.0000	J	18.0000	J	240.0000	J	880.0000		150.0000	J
Manganese	*	50	11.0000		0.5000	U	1.2000	J	0.7600	U	46.0000		0.5000	U
Mercury	2.10	2	0.0630		0.1000	U	0.0049		0.1000	U	0.0990		0.1000	U
Nickel	130.00	100	0.7200		1.2000	U	0.1700	J	1.2000	U	5.1000		1.2000	U
Potassium		an	21.0000	J	330.0000	J	16.0000	J	72.0000	U	47.0000		140.0000	J
Selenium	5.00	50	0.4200	J	4.3000	U	0.4400	J	4.3000	U	0.4000	J	4.3000	U
Silver	17.00	100	0.0970	U	1.0000	U	0.1000	U	1.0000	U	0.3200	U	1.0000	U
Sodium		an	37.0000	U	22000.0000	U	30.0000	U	21000.0000	U	93.0000	J	22000.0000	U
Thallium		2	0.6400	J	6.6000	U	0.6800	U	6.6000	U	0.6200		6.6000	U
Vanadium	980.00	53	2.7000	U	1.4000	J	0.4400	U	1.0000	U	2.7000	U	5.5000	J
Zinc	6000.00	5000	17.0000		2.6000	U	5.3000	J	3.1000	U	150.0000		3.1000	U

Notes:
BOLDING in BULK indicates an exceedance of SCTL.
BOLDING in LEACHATE indicates an exceedance of GCTL.
Italics = Soil / Groundwater detection couplet (except for essential nutrients Ca, Mg,
U = not detected
J = Detected below the Method Detection Limit and above the Instrument Detection
H - Bias in sample is likely to be high

Table 3
Metals SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTLs (ppm)	SAMPLE ID --> Florida GCTLs (ppb)	012S001005 BULK (ppm)		012S001005 LEACHATE (ppb)		012S001305 BULK (ppm)		012S001305 LEACHATE (ppb)		012S001610 BULK (ppm)		012S001610 LEACHATE (ppb)	
Aluminum	*	200	6600.0000		110.0000	U	870.0000		69.0000	U	*1400.0000*		***1200.0000***	
Antimony	5	6	0.4400	U	3.8000	U	0.4500	U	3.8000	U	0.4100	U	3.8000	U
Arsenic	29	50	1.7000		3.9000	U	0.4600	U	3.9000	U	0.4200	U	3.9000	U
Barium	1600	2000	*5.7000*		*1.9000*	J	*3.7000*		*1.6000*	J	*2.2000*		*2.4000*	J
Beryllium	63	4	0.0460	J	0.1000	U	0.0120	U	0.1000	U	0.0110	U	0.1000	U
Cadmium	8	5	1.9000		0.4000	U	4.0000		0.4000	U	0.0430	U	0.4000	U
Calcium		an	1700.0000		5400.0000	JH	82.0000		2700.0000	JH	140.0000		2700.0000	JH
Chromium	38 (hex)	100	*5.8000*		*2.4000*	J	*1.7000*		*2.1000*	J	*1.4000*		*2.6000*	J
Cobalt	*	150	0.2600	J	0.7000	U	0.1200	J	0.7000	U	0.2300	J	0.7000	U
Copper	*	1000	2.4000		1.1000	U	1.3000	J	1.0000	U	0.8000	J	1.2000	U
Iron	*	300	4200.0000		32.0000	U	590.0000		24.0000	U	*1300.0000*		***640.0000***	JH
Lead	*	15	4.4000		1.9000	U	0.6900		1.9000	U	1.1000		1.9000	U
Magnesium		an	110.0000		230.0000	J	28.0000		290.0000	J	32.0000		300.0000	J
Manganese	*	50	47.0000		0.6200	U	8.3000	J	0.5800	U	11.0000	J	11.0000	U
Mercury	2.10	2	0.0130		0.1000	U	0.0053		0.1000	U	0.0075		0.1000	U
Nickel	130.00	100	0.9200	J	1.2000	U	0.6800	J	1.2000	U	0.6600	J	1.2000	U
Potassium		an	41.0000	J	110.0000	U	20.0000	J	100.0000	U	25.0000	J	120.0000	U
Selenium	5.00	50	0.5000	J	4.3000	U	0.5100	J	4.3000	U	0.4600	J	4.3000	U
Silver	17.00	100	0.1200	U	1.0000	U	0.1200	U	1.0000	U	0.1100	U	1.0000	U
Sodium		an	29.0000	U	22000.0000	U	29.0000	U	24000.0000	U	26.0000	U	23000.0000	U
Thallium		2	0.7600	U	6.6000	U	0.7800	U	6.6000	U	0.7100	U	6.6000	U
Vanadium	980.00	53	11.0000	U	1.6000	J	0.8000	U	1.0000	J	1.3000	U	1.4000	J
Zinc	6000.00	5000	7.7000		2.7000	U	17.0000	J	3.6000	U	1.5000		3.5000	U

Notes:
BOLDING in BULK indicates an exceedance of SCTL.
BOLDING in LEACHATE indicates an exceedance of GCTL.
Italics = Soil / Groundwater detection couplet (except for essential nutrients Ca, Mg,
U = not detected
J = Detected below the Method Detection Limit and above the Instrument Detection
H - Bias in sample is likely to be high

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	11GI02 1993 RESULT		11GI02 1995 RESULT		11GI02 2003 RESULT		11GI04 1993 RESULT		11GI04 1995 RESULT		11GI04 2003 RESULT		11GI08 1993 RESULT		11GI08 2003 RESULT		11GI10 1993 RESULT		11GI10 2003 RESULT	
Aluminum	200	13	13	3882.80	**8730.0000**		**1110.0000**	J	**510.0000**		**4880.0000**		**363.0000**		**230.0000**		**824.0000**		170.0000	J	**745.0000**		41.0000	J
Antimony	6	4300	4300	30.20	**41.0000**	UJ	2.3000	U	3.8000	U	**44.0000**	UJ	2.3000	UJ	3.8000	U	21.0000	U	3.8000	U	21.0000	U	3.8000	U
Arsenic	50	50	50	2.80	13.0000		12.6000		6.1000	J	6.0000	J	1.5000	UJ	3.9000	U	5.0000	J	7.1000	J	3.0000	J	8.5000	J
Barium	2000	na	na	13.20	27.0000	J	4.1000	U	8.3000	J	18.0000	J	5.6000	UJ	6.7000	J	37.0000	J	43.0000		37.0000	J	17.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	J	0.0800	UJ	0.1000	U	1.0000	U	0.0800	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	2.0000	U	0.2200	U	0.4000	U	2.0000	U	0.2200	U	0.4000	U	2.0000	U	0.4000	U	2.0000	U	0.4000	U
Calcium	NA	NA	NA	17560.00	2570.0000	J	1190.0000	U	3000.0000		6720.0000		3680.0000		4100.0000		109000.0000		91000.0000		37100.0000		31000.0000	
Chromium	100	na	na	35.00	23.0000	J	2.9000	U	1.1000	J	10.0000	J	0.8600	U	0.9000	U	3.0000	U	0.9600	J	3.0000	U	0.9000	U
Cobalt	150	na	na	4.10	4.0000	U	0.6700	U	0.7000	U	4.0000	U	0.6700	UJ	1.2000	J	4.0000	U	0.7000	U	4.0000	U	0.8700	J
Copper	1000	3.7*	2.9	16.20	24.0000	J	0.9600	U	0.8000	U	10.0000	U	1.6000	U	0.8000	U	3.0000	U	0.8000	U	3.0000	U	0.8000	U
Cyanide	200	5.2	1	NA	20.0000	U	na		na		20.0000	U	na		na		20.0000	U	na		20.0000	U	na	
Iron	300	1000	300	1707.80	**7310.0000**	J	**1030.0000**		**770.0000**		**20000.0000**	J	579.0000		280.0000		**929.0000**	J	**780.0000**		**442.0000**	J	**2400.0000**	
Lead	15	8.5*	8.5	1.60	14.0000	J	0.8100	U	1.9000	U	4.0000	J	1.0000	U	1.9000	U	2.0000	U	1.9000	U	2.0000	U	1.9000	U
Magnesium	NA	NA	NA	2872.60	724.0000	R	181.0000	U	750.0000		821.0000	R	542.0000		770.0000		52700.0000	R	44000.0000		14500.0000	R	17000.0000	
Manganese	50	na	na	22.00	29.0000	J	1.8000	U	11.0000		21.0000	J	24.2000		34.0000		**71.0000**		**140.0000**		32.0000		**120.0000**	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	18.0000	J	1.1000	U	1.2000	U	7.0000	U	1.7000	U	1.2000	U	7.0000	U	2.4000	J	7.0000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	1110.0000	U	2860.0000		620.0000	J	1210.0000	J	637.0000	U	470.0000	J	14000.0000		15000.0000		5850.0000		8300.0000	
Selenium	50	5	71	3.90	6.0000	J	2.0000	UJ	4.3000	U	2.0000	U	2.0000	UJ	4.3000	U	2.0000	U	4.3000	U	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	7.0000	U	1.0000	U	1.0000	U	6.0000	U	1.0000	U	1.0000	U	4.0000	UJ	1.0000	U	4.0000	UJ	1.0000	U
Sodium	NA	NA	NA	18345.00	19400.0000		20800.0000		16000.0000		13500.0000		12500.0000		14000.0000		595000.0000		410000.0000		178000.0000		180000.0000	
Thallium	2	6.3	6.3	3.60	2.0000	UJ	0.9500	U	6.6000	U	2.0000	UJ	0.9500	U	6.6000	U	10.0000	U	6.6000	U	2.0000	U	6.6000	U
Vanadium	53	na	na	9.60	36.0000	J	6.4000	J	1.1000	J	30.0000	J	1.5000	U	1.0000	U	4.0000	U	1.0000	U	4.0000	U	1.0000	U
Zinc	5000	86*	86	153.20	26.0000	U	4.3000	U	2.6000	J	10.0000	U	9.7000	U	3.4000	J	8.0000	U	8.4000	J	2.0000	U	5.9000	J

Notes:
All results in ppb.
Bolding indicates an exceedance of higher of GCTL or NASP Reference
*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	11GI12 1993 RESULT		11GI12 2003 RESULT		11GI14 1993 RESULT		11GI14 2003 RESULT		11GS05 1993 RESULT		11GS05 1995 RESULT		11GS05 2003 RESULT		11GS07 1993 RESULT		11GS07 2003 RESULT	
Aluminum	200	13	13	3882.80	**1130.0000**		570.0000		**4070.0000**		**680.0000**		**409.0000**		**310.0000**		**490.0000**		30.0000	U	**230.0000**	
Antimony	6	4300	4300	30.20	21.0000	U	3.8000	U	21.0000	U	3.8000	U	**30.0000**	UJ	2.3000	UJ	3.8000	U	21.0000	U	3.8000	U
Arsenic	50	50	50	2.80	6.0000	J	3.9000	U	17.0000		3.9000	U	2.0000	U	1.9000	J	3.9000	U	1.0000	J	3.9000	U
Barium	2000	na	na	13.20	18.0000	J	42.0000		23.0000	J	14.0000		46.0000	J	43.5000	J	49.0000		716.0000		150.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.0800	U	0.1000	U	1.0000	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	2.0000	U	0.4000	U	2.0000	U	0.4000	U	2.0000	U	0.2200	U	0.4000	U	**7.0000**		**33.0000**	
Calcium	NA	NA	NA	17560.00	151000.0000		56000.0000		10400.0000		9000.0000		5630.0000		21300.0000		11000.0000		53000.0000		17000.0000	
Chromium	100	na	na	35.00	3.0000	U	1.4000	J	9.0000	J	1.5000	J	3.0000	U	2.7000	U	3.5000	J	3.0000	U	26.0000	
Cobalt	150	na	na	4.10	4.0000	U	0.7000	U	4.0000	U	0.7000	U	4.0000	U	0.7700	J	1.4000	J	4.0000	U	1.7000	J
Copper	1000	3.7*	2.9	16.20	3.0000	U	1.2000	J	3.0000	J	1.1000	J	4.0000	U	2.5000	U	2.2000	J	8.0000	U	120.0000	
Cyanide	200	5.2	1	NA	20.0000	U	na		20.0000	U	na		20.0000	U	na		na		10.0000	U	na	
Iron	300	1000	300	1707.80	**471.0000**	J	**310.0000**		**1200.0000**	J	**730.0000**		**5060.0000**	J	**3490.0000**		**1700.0000**		**8440.0000**	J	**540.0000**	
Lead	15	8.5*	8.5	1.60	2.0000	U	1.9000	U	4.0000	J	1.9000	U	**30.0000**	J	13.0000		9.7000		6.0000		**42.0000**	
Magnesium	NA	NA	NA	2872.60	120000.0000	R	29000.0000		1990.0000	R	1300.0000		1040.0000	R	868.0000		1400.0000		9440.0000	R	2400.0000	
Manganese	50	na	na	22.00	**52.0000**		**130.0000**		21.0000	U	38.0000		**95.0000**	J	36.2000		45.0000		**365.0000**		40.0000	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	7.0000	U	1.2000	U	7.0000	U	1.2000	U	7.0000	U	1.6000	U	1.5000	J	7.0000	U	13.0000	J
Potassium	NA	NA	NA	12167.00	30000.0000		14000.0000		1930.0000	J	780.0000	J	1110.0000	U	2050.0000		1100.0000		3970.0000	J	860.0000	J
Selenium	50	5	71	3.90	2.0000	U	4.3000	U	2.0000	U	4.3000	U	2.0000	U	2.0000	UJ	4.3000	U	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	UJ	1.0000	U	4.0000	UJ	1.0000	U	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.4000	J
Sodium	NA	NA	NA	18345.00	1160000.0000		320000.0000		38900.0000		17000.0000		8000.0000		5470.0000		8200.0000		14500.0000	U	6300.0000	
Thallium	2	6.3	6.3	3.60	10.0000	U	6.6000	U	2.0000	U	6.6000	U	2.0000	UJ	0.9500	U	6.6000	U	2.0000	U	6.6000	U
Vanadium	53	na	na	9.60	6.0000	J	2.0000	J	30.0000	J	2.6000	J	4.0000	U	2.6000	U	3.2000	J	4.0000	U	1.4000	J
Zinc	5000	86*	86	153.20	2.0000	U	4.2000	J	10.0000	U	3.4000	J	36.0000	U	4.7000	U	2.9000	J	560.0000		1600.0000	

Notes:
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*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	11GS09 1993 RESULT		11GS09 2003 RESULT		11GS13 1993 RESULT		11GS13 2003 RESULT		11GS15 1993 RESULT		11GS15 1995 RESULT		11GS15 2003 RESULT		11GS16 2003 RESULT		11GS28 1993 RESULT		11GS28 2003 RESULT	
Aluminum	200	13	13	3882.80	29.0000	U	89.0000	J	458.0000		80.0000	J	29.0000	U	**1090.0000**		18.0000	J	170.0000	J	**919.0000**		62.0000	J
Antimony	6	4300	4300	30.20	21.0000	U	3.8000	U	21.0000	U	3.8000	U	21.0000	U	2.3000	U	3.8000	U	3.8000	U	29.0000	U	3.8000	U
Arsenic	50	50	50	2.80	1.0000	U	3.9000	U	4.0000	J	3.9000	U	1.0000	U	7.6000	J	3.9000	U	3.9000	U	1.0000	J	3.9000	U
Barium	2000	na	na	13.20	382.0000		410.0000		**3790.0000**		**3900.0000**		20.0000	J	72.1000		50.0000		28.0000		20.0000	J	16.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.2000	U	0.1000	U	0.1000	U	1.0000	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	2.0000	U	0.4200	J	2.0000	U	0.4000	U	4.0000	J	0.3000	U	**13.0000**		2.6000	J	2.0000	U	0.4000	U
Calcium	NA	NA	NA	17560.00	109000.0000		110000.0000		90400.0000		97000.0000		16200.0000		46400.0000	J	44000.0000		27000.0000		14500.0000		20000.0000	
Chromium	100	na	na	35.00	3.0000	U	2.5000	J	3.0000	U	0.9000	U	3.0000	U	5.4000	U	3.4000	J	4.1000	J	3.0000	U	0.9000	U
Cobalt	150	na	na	4.10	4.0000	U	0.7000	U	4.0000	U	0.9200	J	4.0000	U	0.7400	J	0.7000	U	0.7000	U	4.0000	U	0.7000	U
Copper	1000	3.7*	2.9	16.20	7.0000	U	3.2000	J	4.0000	J	2.7000	J	3.0000	U	4.4000	U	2.1000	J	13.0000	J	3.0000	J	0.8000	U
Cyanide	200	5.2	1	NA	20.0000	U	na		20.0000	U	na		20.0000	U	na		na		na		20.0000	U	na	
Iron	300	1000	300	1707.80	1440.0000	UJ	**1900.0000**		**10100.0000**	J	**8300.0000**		38.0000	U	**3500.0000**		73.0000		**1000.0000**		**4120.0000**	J	**1800.0000**	
Lead	15	8.5*	8.5	1.60	4.0000	J	7.7000		**17.0000**		1.9000	U	3.0000	J	1.9000	U	1.9000	U	13.0000		2.0000	J	2.8000	J
Magnesium	NA	NA	NA	2872.60	10500.0000	R	11000.0000		15000.0000	R	21000.0000		1350.0000	R	14200.0000		3600.0000		1200.0000		4190.0000	R	3200.0000	
Manganese	50	na	na	22.00	**212.0000**		**230.0000**		**133.0000**		**140.0000**		2.0000	U	**106.0000**		0.9600	J	25.0000		**83.0000**		41.0000	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.0600	U	0.1000	U	0.1000	U	0.2000	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	7.0000	U	1.2000	U	7.0000	U	1.4000	J	7.0000	U	4.3000	U	1.2000	U	1.2000	U	11.0000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	3530.0000	U	4800.0000		5760.0000		10000.0000		2100.0000		12300.0000		3700.0000		280.0000	J	1110.0000	U	890.0000	J
Selenium	50	5	71	3.90	2.0000	U	4.3000	U	2.0000	U	4.4000	J	2.0000	U	2.0000	U	4.3000	U	4.3000	U	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	4.0000	UJ	1.0000	U	4.0000	UJ	1.0000	UJ	1.0000	U	1.0000	U	4.0000	UJ	1.0000	U
Sodium	NA	NA	NA	18345.00	7900.0000	U	20000.0000		16900.0000		28000.0000		4320.0000	J	169000.0000		5100.0000		3000.0000		4870.0000	J	3300.0000	
Thallium	2	6.3	6.3	3.60	2.0000	U	6.6000	U	2.0000	U	6.6000	U	2.0000	U	0.9500	U	6.6000	U	6.6000	U	2.0000	U	6.6000	U
Vanadium	53	na	na	9.60	4.0000	U	1.0000	J	4.0000	U	1.4000	J	4.0000	U	12.0000		1.0000	U	1.0000	U	8.0000	J	1.0000	U
Zinc	5000	86*	86	153.20	2.0000	U	14.0000	J	53.0000		23.0000		25.0000	U	9.0000	U	81.0000		88.0000		11.0000	U	1.9000	J

Notes:
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Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	11GS47 1993 RESULT		11GS47 1995 RESULT		11GS47 2003 RESULT		12GS08 1995 RESULT		12GS08 2003 RESULT		12GS09 1995 RESULT		12GS09 2003 RESULT		25GS01 1993 RESULT		25GS01 1995 RESULT		25GS01 2003 RESULT	
Aluminum	200	13	13	3882.80	120.0000	U	62.8000	U	44.0000	J	117	J	190.0000	J	90.5	J	25.0000	J	**15800.0000**		**248.0000**	J	87.0000	J
Antimony	6	4300	4300	30.20	21.0000	U	2.3000	U	3.8000	U	1.9	U	3.8000	U	1.9	U	4.4000	U	35.0000	U	2.3000	U	3.8000	U
Arsenic	50	50	50	2.80	1.0000	U	1.5000	UJ	3.9000	U	3.2	U	3.9000	U	3.2	U	3.9000	U	4.0000	U	1.5000	U	3.9000	U
Barium	2000	na	na	13.20	33.0000	U	34.2000		76.0000		26.6	J	27.0000		35.1	J	80.0000		56.4000		7.4000	U	9.6000	J
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.0800	U	0.1000	U	0.2	U	0.1000	U	0.2	U	0.1000	U	1.0000	U	0.0800	UJ	0.1000	U
Cadmium	5	9.3*	9.3	3.40	2.0000	U	0.3800	U	0.4000	U	**9.6**		**17.0000**		3.8	J	**8.5000**		4.0000		0.2200	U	0.4000	U
Calcium	NA	NA	NA	17560.00	12200.0000	U	15500.0000		20000.0000		38200		31000.0000		40100		50000.0000		24000.0000		29700.0000		41000.0000	
Chromium	100	na	na	35.00	3.0000	U	1.0000	U	1.5000	J	0.9	U	0.9000	U	0.9	U	1.8000	J	18.0000		0.6400	U	0.9000	U
Cobalt	150	na	na	4.10	4.0000	U	0.6700	U	0.7300	U	0.6	U	0.7000	J	0.77	J	2.9000	J	9.0000	U	0.6700	U	0.7000	U
Copper	1000	3.7*	2.9	16.20	3.0000	U	2.0000	U	0.8000	U	6.8	J	2.3000	J	1.5	U	0.8000	U	20.4000		0.6400	U	0.9600	J
Cyanide	200	5.2	1	NA	10.0000	U	na		na		10	U	na		10	U	na		10.0000	U	na		na	
Iron	300	1000	300	1707.80	**2360.0000**	UJ	**1710.0000**		**2100.0000**		113		**2400.0000**		16.4	J	**2700.0000**		**10400.0000**	J	211.0000		43.0000	J
Lead	15	8.5*	8.5	1.60	1.0000	J	0.8100	U	1.9000	U	4		6.4000		1.9	U	1.9000	U	6.4000		1.4000	U	1.9000	U
Magnesium	NA	NA	NA	2872.60	1270.0000	UR	1120.0000		1400.0000		2360	J	1400.0000		2180	J	3500.0000		2690.0000		1480.0000		2900.0000	
Manganese	50	na	na	22.00	35.0000	U	29.6000	U	**240.0000**		4.7	J	1.4000	J	37		21.0000		**115.0000**		1.8000	U	0.5000	U
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0700	J	0.1000	U	0.2	U	0.1000	U	0.2	U	0.1000	U	0.2600		0.0600	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	7.0000	U	1.7000	U	1.2000	U	1.4	U	2.2000	J	17.5	J	2.3000	J	18.0000	U	0.8800	U	1.2000	U
Potassium	NA	NA	NA	12167.00	1110.0000	U	809.0000	J	610.0000	J	1320	J	1200.0000		1270	J	2000.0000		1730.0000		1140.0000		1300.0000	
Selenium	50	5	71	3.90	2.0000	U	2.0000	U	4.3000	U	4.4	U	4.3000	U	4.4	U	4.3000	U	3.0000	UJ	2.0000	UJ	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	3.6000	U	1.0000	U	0.5	U	1.0000	U	0.5	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	3000.0000	U	1910.0000		2300.0000		6400		13000.0000		4420	J	5300.0000		5170.0000		3700.0000		12000.0000	
Thallium	2	6.3	6.3	3.60	2.0000	U	0.9500	U	6.6000	U	4.5	U	6.6000	U	4.5	U	6.6000	U	3.0000	U	0.9500	U	6.6000	U
Vanadium	53	na	na	9.60	4.0000	U	1.5000	J	2.0000	J	0.87	J	3.0000	J	0.59	J	5.2000	J	25.2000		0.8900	J	1.0000	U
Zinc	5000	86*	86	153.20	7.0000	U	6.4000	U	4.1000	J	164		540.0000		62.1		560.0000		603.0000		68.0000	J	120.0000	

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Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	27GI02 1993 RESULT		27GI02 2003 RESULT		27GS01 1993 RESULT		27GS01 1995 RESULT		27GS01 2003 RESULT		27GS02 1993 RESULT		27GS02 1995 RESULT		27GS02 2003 RESULT	
Aluminum	200	13	13	3882.80	**27600.0000**		**290.0000**		**20400.0000**	J	89.2000	UJ	130.0000	J	**4070.0000**		14.4000	UJ	**570.0000**	
Antimony	6	4300	4300	30.20	35.0000	U	3.8000	U	**61.1000**	J	2.3000	U	3.8000	U	35.0000	U	2.3000	U	3.8000	U
Arsenic	50	50	50	2.80	23.1000		3.9000	U	4.7000	J	1.5000	U	3.9000	U	4.0000	U	1.5000	U	3.9000	U
Barium	2000	na	na	13.20	45.1000		10.0000		46.7000	J	12.0000	U	7.4000	J	52.9000		4.7000	U	13.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.1000	U	1.0000	U	0.0800	UJ	0.1000	U	1.0000	U	0.0800	UJ	0.1000	U
Cadmium	5	9.3*	9.3	3.40	3.0000	U	0.4000	U	3.0000	U	0.2200	U	0.4000	U	3.0000	U	0.2200	U	0.4000	U
Calcium	NA	NA	NA	17560.00	11300.0000		11000.0000		17500.0000		23400.0000		21000.0000		16900.0000		6630.0000		22000.0000	
Chromium	100	na	na	35.00	47.3000		3.9000	J	15.1000		0.6400	U	0.9000	U	8.8000		0.6400	U	1.6000	J
Cobalt	150	na	na	4.10	9.0000	U	0.7000	U	9.0000	U	1.2000	U	0.7000	U	9.0000	U	0.6700	U	0.7000	U
Copper	1000	3.7*	2.9	16.20	9.2000	U	2.0000	J	15.5000		0.6400	U	1.2000	J	6.6000	U	0.7100	U	1.9000	J
Cyanide	200	5.2	1	NA	10.0000	U	na		13.9000		na		na		10.0000	U	na		na	
Iron	300	1000	300	1707.80	**12400.0000**		**1900.0000**		**11700.0000**	J	**4470.0000**		**730.0000**		**1620.0000**		17.9000	U	240.0000	
Lead	15	8.5*	8.5	1.60	**34.9000**		1.9000	U	4.3000	J	0.8100	U	1.9000	U	**20.4000**		0.8100	U	1.9000	U
Magnesium	NA	NA	NA	7872.60	3220.0000		1700.0000		5130.0000		1450.0000		1900.0000		1600.0000		786.0000		1900.0000	
Manganese	50	na	na	22.00	**54.9000**		9.1000	J	46.1000		**371.0000**		5.7000	J	44.5000		34.6000		7.5000	J
Mercury	2	0.012	0.025	0.20	0.2000	~~U~~	0.1000	U	0.2000	U	0.0600	U	0.1000	U	0.2000		0.0600	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	18.0000	U	1.2000	U	19.6000		0.7600	U	1.2000	U	18.0000	U	0.7400	U	1.2000	U
Potassium	NA	NA	NA	12167.00	2000.0000		1700.0000		5160.0000		3000.0000		2500.0000		3250.0000		1110.0000		2900.0000	
Selenium	50	5	71	3.90	3.0000	U	4.3000	U	30.0000	UJ	2.0000	UJ	4.3000	U	3.0000	U	2.0000	UJ	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	12000.0000		8300.0000		11100.0000		8130.0000		5400.0000		6120.0000		8140.0000		7800.0000	
Thallium	2	6.3	6.3	3.60	30.0000	U	6.6000	U	3.0000	UJ	0.9500	U	6.6000	U	3.0000	U	0.9500	U	6.6000	U
Vanadium	53	na	na	9.60	**64.1000**		1.0000	U	33.2000		1.2000	J	2.1000	J	6.0000	U	0.7600	U	1.0000	U
Zinc	5000	86*	86	153.20	85.3000		6.2000	J	31.5000		8.9000	U	3.7000	J	42.6000	U	1.3000	U	5.0000	J

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Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	27GS10 1993 RESULT		27GS10 1995 RESULT		27GS10 2003 RESULT		30GI19 1993 RESULT		30GI19 2003 RESULT		30GI111 1992 RESULT		30GI111 2003 RESULT		30GI126 1993 RESULT		30GI126 1995 RESULT		30GI126 2003 RESULT	
Aluminum	200	13	13	3882.80	**43200.0000**	J	21.1000	UJ	120.0000	J	167.0000	U	**420.0000**		**724.0000**		**270.0000**		**5270.0000**	J	53.1000	U	160.0000	J
Antimony	6	4300	4300	30.20	**61.0000**	J	2.3000	U	3.8000	U	35.0000	U	3.8000	U	35.0000	U	3.8000	U	35.0000	U	2.3000	U	3.8000	U
Arsenic	50	50	50	2.80	12.3000	J	1.5000	U	3.9000	U	2.0000	U	4.3000	J	11.4000		27.0000		2.0000	U	2.2000	J	3.9000	U
Barium	2000	na	na	13.20	68.8000		3.9000	U	4.3000	J	29.9000	U	31.0000		79.8000	U	110.0000		23.7000	U	18.8000	U	20.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.0800	UJ	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.0800	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	**19.6000**		4.7000	U	**8.0000**		3.0000	U	0.4000	U	3.0000	U	0.4000	U	3.0000	U	0.2200	U	0.4000	U
Calcium	NA	NA	NA	17560.00	21400.0000		14800.0000		14000.0000		12300.0000		9400.0000		62900.0000		71000.0000		10200.0000		10000.0000		10000.0000	
Chromium	100	na	na	35.00	**5810.0000**		**309.0000**		**160.0000**		4.0000	UJ	1.7000	J	5.8000	U	1.1000	J	11.8000	U	0.6400	U	0.9000	U
Cobalt	150	na	na	4.10	9.9000		0.6700	U	1.8000	J	3.0000	U	1.0000	J	3.0000	U	1.4000	J	3.0000	U	0.7600	J	0.7000	U
Copper	1000	3.7*	2.9	16.20	27.3000		2.2000	U	1.1000	J	4.0000	U	2.0000	J	9.1000	U	2.0000	J	8.6000	U	3.3000	U	0.8000	U
Cyanide	200	5.2	1	NA	10.0000	U	na		na		10.0000	U	na		10.0000	UJ	na		10.0000	U	na		na	
Iron	300	1000	300	1707.80	**23300.0000**	J	14.1000	U	**3000.0000**		**356.0000**		**410.0000**		**15800.0000**		**30000.0000**		**2070.0000**		**674.0000**		**750.0000**	
Lead	15	8.5*	8.5	1.60	**44.8000**	J	0.8100	U	1.9000	U	2.2000	J	1.9000	U	2.0000	U	1.9000	U	2.0000	U	0.8100	U	1.9000	U
Magnesium	NA	NA	NA	2872.60	6100.0000		2160.0000		3400.0000		4900.0000	J	4900.0000		36900.0000		53000.0000		2800.0000	J	2880.0000		3300.0000	
Manganese	50	na	na	22.00	**218.0000**		**52.2000**		**190.0000**		**54.8000**		47.0000		**76.8000**		**95.0000**		23.0000		24.1000	U	26.0000	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.0600	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	31.1000		1.4000	U	4.6000	J	15.0000	U	2.8000	J	15.0000	U	1.2000	U	15.0000	U	2.5000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	8780.0000		4020.0000		4900.0000		2410.0000	J	3700.0000		12900.0000		24000.0000		1360.0000	J	1250.0000		1700.0000	
Selenium	50	5	71	3.90	30.0000	UJ	2.0000	UJ	4.3000	U	2.0000	U	4.3000	U	3.4000	U	4.3000	U	2.0000	U	3.7000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	1.0000	U	4.0000	UJ	1.0000	U	4.0000	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	13100.0000		9260.0000		11000.0000		10400.0000		11000.0000		344000.0000		550000.0000		9620.0000		9700.0000		10000.0000	
Thallium	2	6.3	6.3	3.60	3.0000	UJ	0.9500	U	6.6000	U	2.0000	U	6.6000	U	10.0000	U	6.6000	U	2.0000	U	0.9500	U	6.6000	U
Vanadium	53	na	na	9.60	**57.7000**		0.7600	U	1.5000	J	3.0000	U	1.4000	J	3.0000	U	1.4000	J	14.3000	U	0.7600	UJ	1.0000	U
Zinc	5000	86*	86	153.20	131.0000		5.3000	U	5.1000	J	10.8000	U	5.4000	J	22.8000	U	6.3000	J	37.0000	U	6.0000	U	4.5000	J

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Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	30GS06 1993 RESULT		30GS06 1995 RESULT		30GS06 2003 RESULT		30GS18 1993 RESULT		30GS18 2003 RESULT		30GS22 1993 RESULT		30GS22 1995 RESULT		30GS22 2003 RESULT	
Aluminum	200	13	13	3882.80	**977.0000**		165.0000	U	200.0000	J	**2730.0000**		**660.0000**		68.4000	J	52.9000	U	50.0000	J
Antimony	6	4300	4300	30.20	35.0000	U	2.3000	U	3.8000	U	35.0000	U	3.8000	U	35.0000	U	2.3000	U	3.8000	U
Arsenic	50	50	50	2.80	2.0000	U	1.5000	UJ	11.0000		4.6000	J	4.7000	J	2.0000	U	1.5000	UJ	3.9000	U
Barium	2000	na	na	13.20	16.6000	U	18.7000	U	51.0000		8.9000	U	9.7000	J	6.2000	U	13.4000	U	24.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.0800	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.0800	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	3.0000	U	0.3300	U	0.4000	U	3.0000	U	0.4000	U	3.0000	U	0.4000	U	0.4000	U
Calcium	NA	NA	NA	17560.00	14900.0000		9800.0000		42000.0000		9560.0000		18000.0000		5520.0000		13700.0000		40000.0000	
Chromium	100	na	na	35.00	4.0000	U	0.7400	U	4.9000	J	20.9000	J	17.0000		4.0000	U	2.0000	U	13.0000	
Cobalt	150	na	na	4.10	3.0000	U	0.6700	U	1.3000	J	3.0000	U	0.7600	J	3.0000	U	0.6700	U	0.7000	U
Copper	1000	3.7*	2.9	16.20	7.4000	U	1.6000	U	3.1000	J	5.9000	U	2.3000	J	4.2000	U	2.4000	U	0.8000	U
Cyanide	200	5.2	1	NA	10.0000	UJ	na		na		10.0000	U	na		10.0000	U	na		na	
Iron	300	1000	300	1707.80	**4230.0000**		234.0000		**6300.0000**		**5260.0000**		**4000.0000**		137.0000	UJ	125.0000		**500.0000**	
Lead	15	8.5*	8.5	1.60	**34.8000**	J	3.4000		**130.0000**		2.6000	J	1.9000	U	**52.5000**	J	**56.2000**		13.0000	
Magnesium	NA	NA	NA	2872.60	1510.0000	J	4390.0000		5400.0000		1970.0000	J	2300.0000		996.0000	J	1190.0000		2300.0000	
Manganese	50	na	na	22.00	41.5000		21.5000	U	**65.0000**		**60.9000**		**77.0000**		2.5000	U	5.9000	U	44.0000	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0600	J	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.0900	J	0.1000	U
Nickel	100	8.3*	8.3	39.90	15.0000	U	1.4000	U	1.2000	U	25.1000	U	8.5000	J	15.0000	U	1.2000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	2950.0000	J	5580.0000		6400.0000		1060.0000	J	940.0000	J	906.0000	J	2600.0000		13000.0000	
Selenium	50	5	71	3.90	2.7000	U	2.0000	U	4.3000	U	2.0000	U	4.3000	U	2.0000	U	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	7790.0000		9710.0000		14000.0000		5640.0000		11000.0000		29100.0000		10300.0000		8700.0000	
Thallium	2	6.3	6.3	3.60	2.0000	U	0.9500	U	6.6000	U	2.0000	U	6.6000	U	2.0000	UJ	0.9500	U	6.6000	U
Vanadium	53	na	na	9.60	3.0000	U	0.7600	UJ	2.6000	J	5.2000	U	1.1000	J	3.0000	U	0.7600	UJ	1.1000	J
Zinc	5000	86*	86	153.20	18.8000	U	4.1000	U	5.3000	J	11.9000	U	5.5000	J	5.0000	U	20.4000		4.1000	J

Notes:
All results in ppb.
Bolding indicates an exceedance of higher of GCTL or NASP Reference
*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	30GS27 1993 RESULT		30GS27 1995 RESULT		30GS27 2003 RESULT		30GS28 1993 RESULT		30GS28 1995 RESULT		30GS28 2003 RESULT		30GS103 1993 RESULT		30GS103 1995 RESULT		30GS103 2003 RESULT	
Aluminum	200	13	13	3882.80	**235.0000**	J	**327.0000**	J	**590.0000**		20.0000	UJ	**784.0000**	J	**520.0000**		38.6000	U	52.9000	U	96.0000	J
Antimony	6	4300	4300	30.20	35.0000	U	2.3000	U	3.8000	U	35.0000	U	2.3000	U	3.8000	U	35.0000	U	**7.8000**	J	3.8000	U
Arsenic	50	50	50	2.80	2.0000	J	1.5000	U	3.9000	U	2.0000	U	1.5000	U	3.9000	U	3.0000	J	1.5000	J	3.9000	U
Barium	2000	na	na	13.20	6.2000	U	8.0000	U	8.5000	J	6.2000	U	6.1000	UJ	4.4000	J	458.0000		328.0000		260.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.0800	UJ	0.1000	U	1.0000	U	0.0800	U	0.1000	U	1.0000	U	0.0800	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	3.4000	J	0.8900	U	0.7400	J	**7.8000**		**108.0000**		**120.0000**		3.0000	U	**5.1000**	J	1.8000	J
Calcium	NA	NA	NA	17560.00	11100.0000		12600.0000		9800.0000		21300.0000		16200.0000		19000.0000		198000.0000		188000.0000	J	170000.0000	
Chromium	100	na	na	35.00	**1380.0000**		69.9000		**180.0000**		**715.0000**		**418.0000**		**250.0000**		4.0000	U	1.5000	U	7.1000	J
Cobalt	150	na	na	4.10	3.0000	U	0.6900	U	0.7000	U	3.0000	U	0.6700	U	1.4000	J	3.0000	U	0.6700	U	0.8000	U
Copper	1000	3.7*	2.9	16.20	7.2000	U	9.4000	U	1.7000	J	12.0000	U	73.0000		11.0000	J	7.2000	U	5.6000	U	9.2000	U
Cyanide	200	5.2	1	NA	10.0000	U	na		na		10.0000	U	na		na		10.0000	UJ	na		na	
Iron	300	1000	300	1707.80	241.0000	UJ	**2810.0000**		**1900.0000**		22.6000	UJ	**6970.0000**		**2700.0000**		**7900.0000**		**4680.0000**		**2700.0000**	
Lead	15	8.5*	8.5	1.60	5.0000	J	4.0000	U	3.1000	J	2.0000	UJ	4.1000	U	1.9000	U	10.2000	J	**37.1000**		**73.0000**	
Magnesium	NA	NA	NA	2872.60	2110.0000	J	1010.0000		1200.0000		2620.0000	J	1000.0000		2700.0000		17900.0000		15000.0000		12000.0000	
Manganese	50	na	na	22.00	31.2000	U	23.2000		32.0000		**53.0000**		19.6000		**52.0000**		**457.0000**		**204.0000**		**110.0000**	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.0900	U	0.1000	U	0.2000	U	0.0600	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	15.0000	U	0.9900	U	1.2000	U	15.0000	U	1.5000	U	2.0000	J	15.0000	U	1.5000	U	2.4000	J
Potassium	NA	NA	NA	12167.00	4690.0000	J	2890.0000		3200.0000		6240.0000		1660.0000		4300.0000		8460.0000		7410.0000		7500.0000	
Selenium	50	5	71	3.90	2.0000	U	2.0000	UJ	4.3000	U	2.0000	UJ	2.0000	UJ	4.3000	U	2.6000	U	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	UJ	1.0000	U
Sodium	NA	NA	NA	18345.00	8050.0000		8160.0000		5300.0000		9840.0000		4040.0000		8800.0000		9340.0000		6790.0000		7100.0000	
Thallium	2	6.3	6.3	3.60	2.0000	UJ	0.9500	U	6.6000	U	2.0000	UJ	0.9500	U	6.6000	U	2.0000	U	0.9500	U	6.6000	U
Vanadium	53	na	na	9.60	3.0000	U	1.2000	J	1.6000	J	3.0000	U	8.7000	J	3.1000	J	3.0000	U	0.7900	J	2.2000	J
Zinc	5000	86*	86	153.20	10.7000	U	7.7000	U	3.1000	J	5.0000	U	5.8000	U	4.2000	J	20.5000	U	23.0000	U	16.0000	J

Notes:
All results in ppb.
Bolding indicates an exceedance of higher of GCTL or NASP Reference
*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	30GS111 1993 RESULT		30GS111 1995 RESULT		30GS111 2003 RESULT		30GS123 1993 RESULT		30GS123 2003 RESULT		30GS126 1993 RESULT		30GS126 1995 RESULT		30GS126 2003 RESULT		30GS170 1993 RESULT		30GS170 2003 RESULT	
Aluminum	200	13	13	3882.80	**760.0000**		**339.0000**		160.0000	J	681.0000		120.0000	J	**627.0000**	J	**579.0000**		**630.0000**		**948.0000**		**240.0000**	
Antimony	6	4300	4300	30.20	35.0000	U	2.3000	U	3.8000	U	35.0000	U	3.8000	U	35.0000	U	2.3000	U	3.8000	U	35.0000	U	3.8000	U
Arsenic	50	50	50	2.80	2.0000	U	1.5000	UJ	3.9000	U	2.0000	U	3.9000	U	2.0000	U	1.5000	UJ	3.9000	U	2.0000	U	3.9000	U
Barium	2000	na	na	13.20	5.2000	U	6.0000	U	20.0000		7.3000	U	6.2000	J	6.4000	U	14.8000	U	6.8000	J	10.1000	U	17.0000	
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.2700	U	0.1000	U	1.0000	U	0.1000	U	1.0000	U	0.0800	U	0.1000	U	1.0000	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	3.0000	U	0.5900	J	0.4000	U	3.0000	U	1.1000	J	3.0000	U	**21.8000**		0.4500	J	3.0000	U	3.2000	J
Calcium	NA	NA	NA	17560.00	9600.0000		9890.0000		46000.0000		9410.0000		14000.0000		17000.0000		13500.0000		5100.0000		23400.0000		32000.0000	
Chromium	100	na	na	35.00	5.7000	U	3.0000	U	1.7000	J	7.4000	U	1.7000	J	11.7000	U	4.9000	U	10.0000		12.2000	U	21.0000	
Cobalt	150	na	na	4.10	3.0000	U	0.6700	U	0.7000	U	3.0000	U	0.7000	U	3.0000	U	1.0000	J	0.7000	U	3.0000	U	1.5000	J
Copper	1000	3.7*	2.9	16.20	6.6000	U	2.2000	U	1.0000	J	6.4000	U	0.8000	U	20.5000	U	1.8000	U	0.8000	U	6.4000	U	1.5000	U
Cyanide	200	5.2	1	NA	10.0000	UJ	na		na		10.0000	UJ	na		10.0000	U	na		na		10.0000	UJ	na	
Iron	300	1000	300	1707.80	**1320.0000**		**605.0000**		**1200.0000**		**702.0000**		**350.0000**		249.0000		**510.0000**		**3400.0000**		**382.0000**		220.0000	
Lead	15	8.5*	8.5	1.60	4.2000	J	1.8000	J	1.9000	U	3.2000	J	1.9000	U	4.2000		**236.0000**		**37.0000**		5.0000	J	1.9000	U
Magnesium	NA	NA	NA	2872.60	2700.0000	J	1620.0000		4500.0000		2330.0000	J	3400.0000		2320.0000	J	2620.0000		2000.0000		2150.0000	J	1900.0000	
Manganese	50	na	na	22.00	31.0000		15.9000	J	**110.0000**		24.3000		17.0000		24.4000		35.1000		31.0000		21.4000		**100.0000**	
Mercury	2	0.012	0.025	0.20	0.2000	U	0.0600	U	0.1000	U	0.2000	U	0.1000	U	0.2000	U	0.0600	J	0.1000	U	0.2000	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	15.0000	U	0.7400	U	1.2000	U	15.0000	U	1.2000	U	15.0000	U	17.1000	U	1.2000	U	15.0000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	10400.0000		6910.0000		7800.0000		1140.0000	J	2900.0000		1270.0000	J	776.0000	J	1500.0000		1740.0000	J	1900.0000	
Selenium	50	5	71	3.90	2.0000	U	2.0000	U	4.3000	U	2.8000	U	4.3000	U	2.0000	U	2.0000	U	4.3000	U	3.6000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	U	4.9000	U	1.0000	U	1.0000	U	4.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	37300.0000		11500.0000		12000.0000		7420.0000		12000.0000		6140.0000		9380.0000		11000.0000		8880.0000		12000.0000	
Thallium	2	6.3	6.3	3.60	2.0000	U	0.9500	U	6.6000	U	2.0000	U	6.6000	U	2.0000	U	0.9500	U	6.6000	U	2.0000	U	6.6000	U
Vanadium	53	na	na	9.60	3.0000	U	2.9000	U	1.4000	J	3.0000	U	1.0000	U	3.0000	U	0.7600	UJ	4.9000	J	3.0000	U	1.4000	J
Zinc	5000	86*	86	153.20	13.8000	U	4.9000	U	4.2000	J	22.3000	U	9.0000	J	43.1000	U	45.8000		2.6000	J	15.4000	U	1.8000	U

Notes:
All results in ppb.
Bolding indicates an exceedance of higher of GCTL or NASP Reference
*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	30GS029 (30GS174) 1993 RESULT		30GS174 2003 RESULT	
Aluminum	200	13	13	3882.80	126.0000	UJ	86.0000	J
Antimony	6	4300	4300	30.20	35.0000	U	3.8000	U
Arsenic	50	50	50	2.80	2.0000	U	3.9000	U
Barium	2000	na	na	13.20	14.2000	U	9.1000	J
Beryllium	4	0.13	0.13	1.10	1.0000	U	0.1000	U
Cadmium	5	9.3*	9.3	3.40	14.2000	U	**14.0000**	
Calcium	NA	NA	NA	17560.00	12200.0000		18000.0000	
Chromium	100	na	na	35.00	4.3000	U	6.2000	J
Cobalt	150	na	na	4.10	3.0000	U	0.7000	U
Copper	1000	3.7*	2.9	16.20	7.1000	U	2.2000	J
Cyanide	200	5.2	1	NA	10.0000	U	na	
Iron	300	1000	300	1707.80	1100.0000		41.0000	J
Lead	15	8.5*	8.5	1.60	3.6000		1.9000	U
Magnesium	NA	NA	NA	2872.60	2980.0000	J	1500.0000	
Manganese	50	na	na	22.00	57.8000		1.2000	J
Mercury	2	0.012	0.025	0.20	0.2000	U	0.1000	U
Nickel	100	8.3*	8.3	39.90	15.0000	U	1.2000	U
Potassium	NA	NA	NA	12167.00	4020.0000	J	4100.0000	
Selenium	50	5	71	3.90	2.0000	U	4.3000	U
Silver	100	0.07	0.4	4.00	4.0000	U	1.0000	U
Sodium	NA	NA	NA	18345.00	8890.0000		7300.0000	
Thallium	2	6.3	6.3	3.60	2.0000	U	6.6000	U
Vanadium	53	na	na	9.60	3.0000	U	1.0000	U
Zinc	5000	86*	86	153.20	16.3000	U	3.7000	J

Notes:
All results in ppb.
Bolding indicates an exceedance of higher of GCTL or NASP Reference
*In accordance with 62-302, F.A.C.
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Table 5													
Summary of Soil Pesticides, OU2, 2003 RI Addendum, NASP													
	SAMPLE ID -->	012S000315				012S000814				030S012304			
PARAMETER	Florida SCTLs (ppb)	1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results	
4,4'-DDD	4000	3.5	U	0.3700	U	240	CPE	0.3600	U	3.4000	U	0.3700	U
4,4'-DDE	18000	3.7		0.5700	U	22		8.7000		3.4000	U	0.5700	U
4,4'-DDT	11000	4		0.3300	U	3.4	U	14.0000		3.4000	U	0.3300	U
Aldrin	500	1.8	U	0.1200	U	1.7	U	0.1100	U	1.8000	U	0.1200	U
alpha-BHC	0.30	1.8	U	0.2500	U	1.7	U	0.2500	U	1.8000	U	0.2600	U
alpha-Chlordane	9600	0.71	J	0.1200	U	1.7	U	0.1100	U	1.8000	U	0.1200	U
beta-BHC	1	1.8	U	0.3000	U	1.7	U	0.3000	U	1.8000	U	0.3100	U
delta-BHC	200	1.8	U	0.1300	U	1.7	U	0.1200	U	1.8000	U	0.1300	U
Dieldrin	4	1.6	J	0.3300	U	3.4	U	1.6000	J	**17.0000**		0.3300	P
Endosulfan I	3800	1.8	U	0.1800	U	1.7	U	0.1800	U	1.8000	U	0.1800	U
Endosulfan II	3800	3	J	0.2300	U	3.4	U	0.2300	U	3.4000	U	0.2300	U
Endosulfan sulfate	NA	3.5	U	0.4600	U	3.4	U	0.4600	U	3.4000	U	0.4700	U
Endrin	1000	3.5	U	0.4500	U	3.4	U	0.4500	U	3.4000	U	0.4600	U
Endrin aldehyde	NA	4.6		0.3300	U	3.4	U	0.3200	U	3.4000	U	0.3300	U
Endrin ketone	NA	3.5	U	0.4000	U	3.4	U	0.4000	U	3.4000	U	0.4000	U
gamma-BHC (Lindane)	9	1.8	U	0.1600	U	1.7	U	0.1600	U	1.8000	U	0.1600	U
gamma-Chlordane	9600	0.99	J	0.1400	U	1.7	U	0.1400	U	1.8000	U	0.1400	U
Heptachlor	23000	1.8	U	0.2900	U	1.7	U	0.2900	U	1.8000	U	0.3000	U
Heptachlor epoxide	600	1.8	U	0.1800	U	1.7	U	0.1800	U	1.8000	U	0.1800	U
Methoxychlor	160000	18	U	0.2100	U	17	U	0.2100	U	18.0000	U	0.2100	U
Toxaphene	31000	180	U	35.0000	U	170	U	34.0000	U	180.0000	U	35.0000	U

Note: All results in ppb
NA = not applicable
U = not detected
Bolding indicates an exceedance of the SCTG.
C = Compound has been qualitatively confirmed by GC/MS
J = Estimated value below detection limit
E = Reported value exceeds the calibration range of the instrument
P - Percent difference between results from two analytical columns is >25%

Table 6
Summary of Soil PCBs, OU2, 2003 RI Addendum, NASP

	WELL ID -->	012S000315				012S000814				030S012304			
PARAMETER	FLORIDA SCTLs (ppb)	1993 Result		2003 Result		1993 Result		2003 Result		1993 Result		2003 Result	
Aroclor-1016	17000	35	U	4.1000	U	34	U	4.1000	U	34.0000	U	4.1000	U
Aroclor-1221	17000	35	U	18.0000	U	34	U	18.0000	U	70.0000	U	18.0000	U
Aroclor-1232	17000	35	U	7.0000	U	34	U	7.0000	U	34.0000	U	7.1000	U
Aroclor-1242	17000	35	U	7.0000	U	34	U	7.0000	U	34.0000	U	7.1000	U
Aroclor-1248	17000	35	U	6.8000	U	34	U	6.8000	U	34.0000	U	6.9000	U
Aroclor-1254	17000	71	U	7.0000	U	69	U	7.0000	U	34.0000	U	7.1000	U
Aroclor-1260	17000	120		4.6000	U	260		120.0000		34.0000	U	4.7000	U

Notes:
All results in ppb
U = not detected

Table 7
Pesticide SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTL (ppb)	WELL ID --> Florida GCTL (ppb)	012S000315				012S000814				030S012304			
			BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE	
4,4'-DDD	4000	0.2	0.3700	U	0.0160	U	0.3600	U	0.0160	U	0.3700	U	0.0160	U
4,4'-DDE	18000	0.1	0.5700	U	0.0100	U	8.7000		0.0100	U	0.5700	U	0.0100	U
4,4'-DDT	11000	0.1	0.3300	U	0.0140	U	14.0000		0.0140	U	0.3300	U	0.0140	U
Aldrin	500	0.002	0.1200	U	0.0086	U	0.1100	U	0.0086	U	0.1200	U	0.0086	U
alpha-BHC	0.30	0.01	0.2500	U	0.0035	U	0.2500	U	0.0035	U	0.2600	U	0.0035	U
alpha-Chlordane	9600	2.0	0.1200	U	0.0084	U	0.1100	U	0.0084	U	0.1200	U	0.0084	U
beta-BHC	1	0.02	0.3000	U	0.0035	U	0.3000	U	0.0035	U	0.3100	U	0.0035	U
delta-BHC	200	2.3	0.1300	U	0.0090	U	0.1200	U	0.0090	U	0.1300	U	0.0090	U
Dieldrin	4	0.0020	0.3300	U	0.0060	U	1.6000	J	0.0060	U	0.3300	P	0.0060	U
Endosulfan I	3800	46.0	0.1800	U	0.0099	U	0.1800	U	0.0099	U	0.1800	U	0.0099	U
Endosulfan II	3800	46.0	0.2300	U	0.0084	U	0.2300	U	0.0084	U	0.2300	U	0.0084	U
Endosulfan sulfate	NA	46.0	0.4600	U	0.0085	U	0.4600	U	0.0085	U	0.4700	U	0.0085	U
Endrin	1000	2.0	0.4500	U	0.0097	U	0.4500	U	0.0097	U	0.4600	U	0.0097	U
Endrin aldehyde	NA	0.2	0.3300	U	0.0140	U	0.3200	U	0.0140	U	0.3300	U	0.0140	U
Endrin ketone	NA	0.2	0.4000	U	0.0072	U	0.4000	U	0.0072	U	0.4000	U	0.0072	U
gamma-BHC (Lindane)	9	0.2	0.1600	U	0.0030	U	0.1600	U	0.0030	U	0.1600	U	0.0030	U
gamma-Chlordane	9600	2.0	0.1400	U	0.0070	U	0.1400	U	0.0070	U	0.1400	U	0.0070	U
Heptachlor	23000	0.4	0.2900	U	0.0140	U	0.2900	U	0.0140	U	0.3000	U	0.0140	U
Heptachlor epoxide	600	0.2	0.1800	U	0.0026	U	0.1800	U	0.0026	U	0.1800	U	0.0026	U
Methoxychlor	160000	40.0	0.2100	U	0.0070	U	0.2100	U	0.0070	U	0.2100	U	0.0070	U
Toxaphene	31000	3.0	35.0000	U	0.7700	U	34.0000	U	0.7700	U	35.0000	U	0.7700	U

Note: All results in ppb
NA = Not Applicable
U = not detected
P = Percent difference between two analytical columns is >25%

Table 8
PCB SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTLs (ppb)	WELL ID --> Florida GCTLs (ppb)	012S000315 BULK		012S000315 LEACHATE		012S000814 BULK		012S000814 LEACHATE		030S012304 BULK		030S012304 LEACHATE	
Aroclor-1016	17000	0.5	4.1000	U	0.1100	U	4.1000	U	0.1100	U	4.1000	U	0.1100	U
Aroclor-1221	17000	0.5	18.0000	U	0.5000	U	18.0000	U	0.5000	U	18.0000	U	0.5000	U
Aroclor-1232	17000	0.5	7.0000	U	0.1800	U	7.0000	U	0.1800	U	7.1000	U	0.1800	U
Aroclor-1242	17000	0.5	7.0000	U	0.1400	U	7.0000	U	0.1400	U	7.1000	U	0.1400	U
Aroclor-1248	17000	0.5	6.8000	U	0.1100	U	6.8000	U	0.1100	U	6.9000	U	0.1100	U
Aroclor-1254	17000	0.5	7.0000	U	0.2000	U	7.0000	U	0.2000	U	7.1000	U	0.2000	U
Aroclor-1260	17000	0.5	4.6000	U	0.1100	U	120.0000		0.1100	U	4.7000	U	0.1100	U

Note:
All results in ppb
U = not detected

Table 9
Summary of Groundwater Pesticides

		WELL ID -->		012GS00803				030GS12303					
PARAMETER	Florida GCTL	FSWCTL	MSWCTL	1993 Results		2003 Results		1993 Results		1995 Results		2003 Results	
4,4'-DDD	0.2	0.0003	0.0003	0.11		0.0160	U	0.1000	U	0.1000	U	0.0160	U
4,4'-DDE	0.1	0.0002	0.0002	0.0039	J	0.0100	U	0.1000	U	0.1000	U	0.0100	U
4,4'-DDT	0.1	0.00059	0.00059	0.0099	J	0.0140	U	0.1000	U	0.1000	U	0.0140	U
Aldrin	0.002	0.00014	0.00014	0.05	U	0.0086	U	0.0480	U	0.0500	U	0.0086	U
alpha-BHC	0.006	0.005	0.005	na		0.0035	U	0.0480	U	0.0500	U	0.0035	U
alpha-Chlordane	2.0	0.00059	0.00059	0.05	J	0.0084	U	0.0480	U	0.0500	U	0.0084	U
beta-BHC	0.02	0.046	0.046	0.05	U	0.0035	U	0.0480	U	0.0500	U	0.0035	U
delta-BHC	2.3	NA	NA	0.05	U	0.0090	U	0.0480	U	0.0500	U	0.0090	U
Dieldrin	0.0020	0.00014	0.00014	0.1	U	0.0060	U	0.1000	U	0.1000	U	0.0060	U
Endosulfan I	46.0	0.056	0.0087	0.05	U	0.0099	U	0.0480	U	0.0500	U	0.0099	U
Endosulfan II	46.0	0.056	0.0087	0.1	U	0.0084	U	0.1000	U	0.1000	U	0.0084	U
Endosulfan sulfate	46.0	0.056	0.0087	0.1	U	0.0085	U	0.1000	U	0.1000	U	0.0085	U
Endrin	2.0	0.0023	0.0023	0.1	U	0.0097	U	0.1000	U	0.1000	U	0.0097	U
Endrin aldehyde	0.2	NA	NA	0.014	J	0.0140	U	0.1000	U	0.1000	U	0.0140	U
Endrin ketone	0.2	NA	NA	0.1	U	0.0072	U	0.1000	U	0.1000	U	0.0072	U
gamma-BHC (Lindane)	0.2	0.063	0.063	0.05	U	0.0030	U	0.0480	U	0.0500	U	0.0030	U
gamma-Chlordane	2.0	0.00059	0.00059	0.05	U	0.0070	U	0.0480	U	0.0500	U	0.0070	U
Heptachlor	0.4	0.00021	0.00021	0.05	U	0.0014	U	0.0480	U	0.0500	U	0.0014	U
Heptachlor epoxide	0.2	0.00004	0.00004	0.05	U	0.0026	U	0.0480	U	0.0500	U	0.0026	U
Methoxychlor	40.0	0.03	0.03	0.5	U	0.0070	U	0.4800	U	0.0500	U	0.0070	U
Toxaphene	3.0	0.0002	0.0002	5	U	0.7700	U	**4.8000**		3.0000	U	0.7700	U

Notes:
all results in ppb
NA = not applicable
na = not analyzed
U = not detected
J = present below the method detection limit

Table 10
Summary of Groundwater PCBs

			WELL ID -->	012GS008				030GS123			
PARAMETER	**Florida GCTL**	**FSWCTL**	**MSWCTL**	**1993 Results**		**2003 Results**		**1993 Results**		**2003 Results**	
Aroclor-1016	0.5	0.000045	0.000045	1	U	0.1100	U	0.9600	U	0.1100	U
Aroclor-1221	0.5	0.000045	0.000045	2	U	0.5000	U	1.9600	U	0.5000	U
Aroclor-1232	0.5	0.000045	0.000045	1	U	0.1800	U	0.9600	U	0.1800	U
Aroclor-1242	0.5	0.000045	0.000045	1	U	0.1400	U	0.9600	U	0.1400	U
Aroclor-1248	0.5	0.000045	0.000045	1	U	0.1100	U	0.9600	U	0.1100	U
Aroclor-1254	0.5	0.000045	0.000045	1	U	0.2000	U	0.9600	U	0.2000	U
Aroclor-1260	0.5	0.000045	0.000045	0.42	J	0.1100	U	0.9600	U	0.1100	U

Notes:
all results in ppb
U = not detected
J = present below the method detection limit

Table 11

Summary of Soil SVOAs, OU2, 2003 RI Addendum, NASP

PARAMETER	SAMPLE ID --> Leachability-based SCTLs (ppb)	011SLF1206 1993 Results		011SLF1206 2003 Results		025S001014 1993 Results		025S001014 2003 Results		025S11214 1993 Results		025S11214 2003 Results		027S001706 1993 Results		027S001706 2003 Results		030S000608 1993 Results		030S000608 2003 Results		030S001212 1993 Results		030S001212 2003 Results	
1,2,4-Trichlorobenzene	5300	54000.0000	U	44.0000	U	340.0000	U	41.0000	U	350.0000	U	40.0000	U	350.0000	U	40.0000	U	350.0000	U	42.0000	U	340.0000	U	40.0000	U
1,2-Dichlorobenzene	17000	54000.0000	U	26.0000	U	340.0000	U	25.0000	U	350.0000	U	24.0000	U	350.0000	U	24.0000	U	350.0000	U	26.0000	U	340.0000	U	24.0000	U
1,3-Dichlorobenzene	300	54000.0000	U	26.0000	U	340.0000	U	25.0000	U	350.0000	U	24.0000	U	350.0000	U	24.0000	U	350.0000	U	26.0000	U	340.0000	U	24.0000	U
1,4-Dichlorobenzene	2200	54000.0000	U	28.0000	U	340.0000	U	26.0000	U	350.0000	U	26.0000	U	350.0000	U	26.0000	U	350.0000	U	27.0000	U	340.0000	U	25.0000	U
1-Methyl naphthalene	2200	na		1700.0000	D	na		0.3800	U	na		0.4200		na		0.3700	U	na		0.4300		na		0.3700	U
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	na		37.0000	U	na		34.0000	U	na		34.0000	U	na		34.0000	U	na		36.0000	U	na		34.0000	U
2,4,5-Trichlorophenol	300	140000.0000	U	36.0000	U	820.0000	U	33.0000	U	840.0000	U	33.0000	U	840.0000	U	33.0000	U	840.0000	U	34.0000	U	840.0000	U	33.0000	U
2,4,6-Trichlorophenol	60	54000.0000	U	37.0000	U	340.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	36.0000	U	340.0000	U	34.0000	U
2,4-Dichlorophenol	5	54000.0000	U	33.0000	U	340.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	32.0000	U	340.0000	U	30.0000	U
2,4-Dimethylphenol	1700	54000.0000	U	32.0000	U	340.0000	U	30.0000	U	350.0000	U	30.0000	U	350.0000	U	30.0000	U	350.0000	U	31.0000	U	340.0000	U	29.0000	U
2,4-Dinitrophenol	60	140000.0000	UJ	390.0000	U	820.0000	U	360.0000	U	840.0000	U	360.0000	U	840.0000	U	360.0000	U	840.0000	U	380.0000	U	840.0000	U	360.0000	U
2,4-Dinitrotoluene	0.80	54000.0000	U	25.0000	U	340.0000	U	24.0000	U	350.0000	U	23.0000	U	350.0000	U	23.0000	U	350.0000	U	24.0000	U	340.0000	U	23.0000	U
2,6-Dinitrotoluene	0.7	54000.0000	U	33.0000	U	340.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	32.0000	U	340.0000	U	30.0000	U
2-Chloronaphthalene	260000	54000.0000	U	42.0000	U	340.0000	U	40.0000	U	350.0000	U	39.0000	U	350.0000	U	39.0000	U	350.0000	U	41.0000	U	340.0000	U	39.0000	U
2-Chlorophenol	700	54000.0000	U	47.0000	U	340.0000	U	44.0000	U	350.0000	U	44.0000	U	350.0000	U	44.0000	U	350.0000	U	46.0000	U	340.0000	U	43.0000	U
2-Methyl-4,6-Dinitrophenol	NA	140000.0000	UJ	36.0000	U	820.0000	U	33.0000	U	840.0000	U	33.0000	U	840.0000	U	33.0000	U	840.0000	U	34.0000	U	840.0000	U	33.0000	U
2-Methylnaphthalene	6100	**24000.0000**	J	2600.0000	D	340.0000	U	0.5700	U	350.0000	U	0.6000		350.0000	U	0.5600	U	350.0000	U	0.5900	U	340.0000	U	0.5600	U
2-Methylphenol (o-Cresol)	300	54000.0000	U	53.0000	U	340.0000	U	49.0000	U	350.0000	U	49.0000	U	350.0000	U	49.0000	U	350.0000	U	51.0000	U	340.0000	U	48.0000	U
2-Nitroaniline	300	140000.0000	U	29.0000	U	820.0000	U	27.0000	U	840.0000	U	26.0000	U	840.0000	U	26.0000	U	840.0000	UJ	28.0000	U	840.0000	U	26.0000	U
2-Nitrophenol	NA	54000.0000	U	30.0000	U	340.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	29.0000	U	340.0000	U	27.0000	U
3,3'-Dichlorobenzidine	400	54000.0000	UJ	30.0000	U	340.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	UJ	29.0000	U	340.0000	U	27.0000	U
3-Methylphenol/4-Methylphenol	30	na		46.0000	U	na		43.0000	U	na		42.0000	U	na		42.0000	U	na		44.0000	U	na		42.0000	U
3-Nitroaniline	100	140000.0000	U	34.0000	U	820.0000	U	32.0000	U	840.0000	U	32.0000	U	840.0000	U	32.0000	U	840.0000	U	33.0000	U	840.0000	UJ	32.0000	U
4-Bromophenyl-phenylether	NA	54000.0000	U	34.0000	U	340.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	33.0000	U	340.0000	U	32.0000	U
4-Chloro-3-methylphenol	400	54000.0000	U	46.0000	U	340.0000	U	43.0000	U	350.0000	U	42.0000	U	350.0000	U	42.0000	U	350.0000	U	44.0000	U	340.0000	U	42.0000	U
4-Chloroaniline	200	54000.0000	U	33.0000	U	340.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	31.0000	U	350.0000	U	32.0000	U	340.0000	U	30.0000	U
4-Chlorophenylphenyl ether	NA	54000.0000	U	30.0000	U	340.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	29.0000	U	340.0000	U	27.0000	U
4-Methylphenol (p-cresol)	30	54000.0000	U	na		340.0000	U	na		350.0000	U	na		**130.0000**	J	na		350.0000	U	na		340.0000	U	na	
4-Nitroaniline	100	140000.0000	U	30.0000	U	820.0000	U	28.0000	U	840.0000	U	28.0000	U	840.0000	U	28.0000	U	840.0000	UJ	29.0000	U	840.0000	U	27.0000	U
4-Nitrophenol	300	140000.0000	U	29.0000	U	820.0000	U	27.0000	U	840.0000	U	26.0000	U	840.0000	U	26.0000	U	840.0000	U	28.0000	U	840.0000	U	26.0000	U
Acenaphthene	2100	54000.0000	U	1.1000	U	340.0000	U	0.9700	U	350.0000	U	0.9600	U	350.0000	U	0.9600	U	350.0000	U	1.0000	U	340.0000	U	0.9500	U
Acenaphthylene	27000	54000.0000	U	1.0000	U	340.0000	U	0.9200	U	350.0000	U	0.9100	U	350.0000	U	0.9100	U	350.0000	U	24.0000		340.0000	U	0.9000	U
Anthracene	2500000	54000.0000	U	15.0000		340.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	18.0000		340.0000	U	1.0000	U
Benzo(a)anthracene	3200	54000.0000	U	0.9200	U	340.0000	U	0.8200	U	350.0000	U	0.8100	U	350.0000	U	0.8100	U	350.0000	U	140.0000		340.0000	U	1.0000	
Benzo(a)pyrene	8000	54000.0000	U	1.1000	U	340.0000	U	0.9700	U	350.0000	U	0.9600	U	350.0000	U	0.9600	U	350.0000	U	190.0000		340.0000	U	1.6000	
Benzo(b)fluoranthene	10000	54000.0000	U	1.2000	U	340.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	310.0000		340.0000	U	2.0000	
Benzo(g,h,i)perylene	32000000	54000.0000	U	29.0000		340.0000	U	0.6600	U	350.0000	U	0.6500	U	350.0000	U	0.6500	U	350.0000	U	250.0000		340.0000	U	2.3000	
Benzo(k)fluoranthene	25000	54000.0000	UJ	1.2000	U	340.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	1.0000	U	350.0000	U	240.0000		340.0000	U	1.6000	
bis(2-Chloroethoxy)methane	NA	54000.0000	U	37.0000	U	340.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	36.0000	U	340.0000	U	34.0000	U
bis(2-Chloroethyl)ether	20	54000.0000	U	42.0000	U	340.0000	U	40.0000	U	350.0000	U	39.0000	U	350.0000	U	39.0000	U	350.0000	U	41.0000	U	340.0000	U	39.0000	U
bis(2-chloroisopropyl)ether	70	54000.0000	U	na		340.0000	U	na		350.0000	U	na		350.0000	U	na		350.0000	UJ	na		340.0000	U	na	
bis(2-Ethylhexyl)phthalate (BEHP)	3600000	54000.0000	UJ	88.0000		340.0000	U	47.0000	U	350.0000	U	47.0000	U	350.0000	U	47.0000	U	350.0000	U	49.0000	U	750.0000	J	46.0000	U
Butylbenzylphthalate	310000	54000.0000	UJ	37.0000	U	340.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	36.0000	U	340.0000	U	34.0000	U
Carbazole	600	54000.0000	UJ	34.0000	U	340.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	100.0000		340.0000	U	32.0000	U
Chrysene	77000	54000.0000	U	1.2000	U	340.0000	U	1.1000	U	350.0000	U	1.1000	U	350.0000	U	1.1000	U	350.0000	U	180.0000		340.0000	U	1.1000	
Dibenz(a,h)anthracene	30000	54000.0000	UJ	1.1000	U	340.0000	U	0.9500	U	350.0000	U	0.9400	U	350.0000	U	0.9400	U	350.0000	U	47.0000		340.0000	U	0.9300	U
Dibenzofuran	15000	54000.0000	U	39.0000	U	340.0000	U	36.0000	U	350.0000	U	36.0000	U	350.0000	U	36.0000	U	350.0000	U	38.0000	U	340.0000	U	36.0000	U
Diethylphthalate	86000	54000.0000	U	40.0000	U	340.0000	U	38.0000	U	350.0000	U	37.0000	U	350.0000	U	37.0000	U	350.0000	U	39.0000	U	340.0000	U	37.0000	U
Dimethylphthalate	380000	54000.0000	U	40.0000	U	340.0000	U	38.0000	U	350.0000	U	37.0000	U	350.0000	U	37.0000	U	350.0000	U	39.0000	U	340.0000	U	37.0000	U
Di-n-butylphthalate	47000	54000.0000	U	45.0000	U	340.0000	U	42.0000	U	350.0000	U	41.0000	U	350.0000	U	41.0000	U	350.0000	U	43.0000	U	340.0000	U	41.0000	U
Di-n-octylphthalate	480000000	54000.0000	UJ	37.0000	U	340.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	34.0000	U	350.0000	U	36.0000	U	340.0000	U	34.0000	U
Fluoranthene	1200000	54000.0000	U	30.0000		340.0000	U	0.9200	U	350.0000	U	0.9100	U	350.0000	U	0.9100	U	350.0000	U	520.0000		340.0000	U	1.7000	
Fluorene	160000	54000.0000	U	0.9400	U	340.0000	U	0.8400	U	350.0000	U	0.8300	U	350.0000	U	0.8300	U	350.0000	U	1.5000		340.0000	U	0.8200	U
Hexachlorobenzene	2200	54000.0000	U	44.0000	U	340.0000	U	41.0000	U	350.0000	U	40.0000	U	350.0000	U	40.0000	U	350.0000	U	42.0000	U	340.0000	U	40.0000	U
Hexachlorobutadiene	1100	54000.0000	U	31.0000	U	340.0000	U	29.0000	U	350.0000	U	29.0000	U	350.0000	U	29.0000	U	**350.0000**	J	30.0000	U	340.0000	U	28.0000	U
Hexachlorocyclopentadiene	400000	54000.0000	UJ	310.0000	U	340.0000	U	290.0000	U	350.0000	U	290.0000	U	350.0000	U	290.0000	U	350.0000	U	300.0000	U	340.0000	U	280.0000	U
Hexachloroethane	200	54000.0000	U	22.0000	U	340.0000	U	20.0000	U	350.0000	U	20.0000	U	350.0000	U	20.0000	U	350.0000	U	21.0000	U	340.0000	U	20.0000	U
Indeno(1,2,3-cd)pyrene	28000	54000.0000	U	0.7800	U	340.0000	U	0.7000	U	350.0000	U	0.6900	U	350.0000	U	0.6900	U	350.0000	U	97.0000		340.0000	U	0.7500	
Isophorone	200	54000.0000	U	30.0000	U	**340.0000**		28.0000	U	350.0000	U	28.0000	U	350.0000	U	28.0000	U	350.0000	U	29.0000	U	340.0000	U	27.0000	U
Naphthalene	1700	**14000.0000**	J	1300.0000	D	340.0000	U	0.7600	U	350.0000	U	0.7600	U	36.0000	J	0.7600	U	**150.0000**	J	0.7900	U	340.0000	U	0.7500	U
Nitrobenzene	30	54000.0000	U	36.0000	U	340.0000	U	33.0000	U	350.0000	U	33.0000	U	350.0000	U	33.0000	U	350.0000	U	34.0000	U	340.0000	U	33.0000	U
N Nitroso-di-n-propylamine	40	54000.0000	U	34.0000	U	340.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	33.0000	U	340.0000	U	32.0000	U
N-Nitrosodiphenylamine	400	54000.0000	U	34.0000	U	340.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	32.0000	U	350.0000	U	33.0000	U	340.0000	U	32.0000	U
Pentachlorophenol	30	140000.0000	U	39.0000	U	820.0000	U	36.0000	U	**47.0000**	J	36.0000	U	840.0000	U	36.0000	U	840.0000	U	38.0000	U	840.0000	U	36.0000	U
Phenanthrene	250000	54000.0000	U	110.0000		340.0000	U	0.8600	U	350.0000	U	0.8500	U	350.0000	U	0.8500	U	350.0000	U	150.0000		340.0000	U	0.8400	U
Phenol	50	54000.0000	U	47.0000	U	340.0000	U	44.0000	U	350.0000	U	44.0000	U	**66.0000**	J	44.0000	U	350.0000	U	46.0000	U	340.0000	U	43.0000	U
Pyrene	880000	54000.0000	U	87.0000		340.0000	U	1.3000	U	350.0000	U	1.3000	U	350.0000	U	1.3000	U	350.0000	U	370.0000		340.0000	U	1.7000	

Note: all results in ppb
NA = not applicable
U = not detected
J = present below method reporting limit but present above instrument detection limit
na = not analyzed
BOLDING indicates an exceedance of SCTL

Table 12
Semi-VOAs SPLP Results, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTLs (ppb)	SAMPLE ID--> Florida GCTLs (ppb)	011SLF1206				025S000514				025S000814				027S001706				030S000608				030S001212			
			BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE	
1,2,4-Trichlorobenzene	5300	70	44.0000	U	0.5100	U	41.0000	U	0.5100	U	40.0000	U	0.5100	U	40.0000	U	0.5100	U	42.0000	U	0.5100	U	40.0000	U	0.5100	U
1,2-Dichlorobenzene	17000	600	26.0000	U	1.0000	U	25.0000	U	1.0000	U	24.0000	U	1.0000	U	24.0000	U	1.0000	U	26.0000	U	1.0000	U	24.0000	U	1.0000	U
1,3-Dichlorobenzene	300	230	26.0000	U	1.0000	U	25.0000	U	1.0000	U	24.0000	U	1.0000	U	24.0000	U	1.0000	U	26.0000	U	1.0000	U	24.0000	U	1.0000	U
1,4-Dichlorobenzene	2200	75	28.0000	U	1.0000	U	26.0000	U	1.0000	U	26.0000	U	1.0000	U	26.0000	U	1.0000	U	27.0000	U	1.0000	U	25.0000	U	1.0000	U
1-Methyl naphthalene	2200	15	*1700.0000*	*D*	***21.0000***	*D*	0.3800	U	0.0280	U	0.4200		0.0280	U	0.3700	U	0.0360		0.4300		0.0280	U	0.3700	U	0.0460	
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	NA	37.0000	U	0.5800	U	34.0000	U	0.5800	U	34.0000	U	0.5800	U	34.0000	U	0.5800	U	36.0000	U	0.5800	U	34.0000	U	0.5800	U
2,4,5-Trichlorophenol	300	1	36.0000	U	1.1000	U	33.0000	U	1.1000	U	33.0000	U	1.1000	U	33.0000	U	1.1000	U	34.0000	U	1.1000	U	33.0000	U	1.1000	U
2,4,6-Trichlorophenol	60	3.5	37.0000	U	1.1000	U	34.0000	U	1.1000	U	34.0000	U	1.1000	U	34.0000	U	1.1000	U	36.0000	U	1.1000	U	34.0000	U	1.1000	U
2,4-Dichlorophenol	5	0.3	33.0000	U	0.7600	U	31.0000	U	0.7600	U	31.0000	U	0.7600	U	31.0000	U	0.7600	U	32.0000	U	0.7600	U	30.0000	U	0.7600	U
2,4-Dimethylphenol	1700	150	32.0000	U	1.1000	U	30.0000	U	1.1000	U	30.0000	U	1.1000	U	30.0000	U	1.1000	U	31.0000	U	1.1000	U	29.0000	U	1.1000	U
2,4-Dinitrophenol	60	15	390.0000	U	10.0000	U	360.0000	U	10.0000	U	360.0000	U	10.0000	U	360.0000	U	10.0000	U	380.0000	U	10.0000	U	360.0000	U	10.0000	U
2,4-Dinitrotoluene	0.80	0.06	25.0000	U	1.1000	U	24.0000	U	1.1000	U	23.0000	U	1.1000	U	23.0000	U	**13.0000**		24.0000	U	1.1000	U	23.0000	U	1.1000	U
2,6-Dinitrotoluene	0.7	0.06	33.0000	U	0.8700	U	31.0000	U	0.8700	U	31.0000	U	0.8700	U	31.0000	U	**19.0000**		32.0000	U	0.8700	U	30.0000	U	0.8700	U
2-Chloronaphthalene	260000	610	42.0000	U	1.0000	U	40.0000	U	1.0000	U	39.0000	U	1.0000	U	39.0000	U	1.0000	U	41.0000	U	1.0000	U	39.0000	U	1.0000	U
2-Chlorophenol	700	38	47.0000	U	0.7900	U	44.0000	U	0.7900	U	44.0000	U	0.7900	U	44.0000	U	0.7900	U	46.0000	U	0.7900	U	43.0000	U	0.7900	U
2-Methyl-4,6-Dinitrophenol	NA	NA	36.0000	U	10.0000	U	33.0000	U	10.0000	U	33.0000	U	10.0000	U	33.0000	U	10.0000	U	34.0000	U	10.0000	U	33.0000	U	10.0000	U
2-Methylnaphthalene	6100	15	*2600.0000*	*D*	***27.0000***	*D*	0.5700	U	0.0250		*0.6000*		*0.0220*		0.5600	U	0.0560		0.5900	U	0.0280		0.5600	U	0.0670	
2-Methylphenol (o-Cresol)	300	38	53.0000	U	0.5900	U	49.0000	U	0.5900	U	49.0000	U	0.5900	U	49.0000	U	0.5900	U	51.0000	U	0.5900	U	48.0000	U	0.5900	U
2-Nitroaniline	300	1.8	29.0000	U	0.7200	U	27.0000	U	0.7200	U	26.0000	U	0.7200	U	26.0000	U	0.7200	U	28.0000	U	0.7200	U	26.0000	U	0.7200	U
2-Nitrophenol	NA		30.0000	U	1.1000	U	28.0000	U	1.1000	U	28.0000	U	1.1000	U	28.0000	U	1.1000	U	29.0000	U	1.1000	U	27.0000	U	1.1000	U
3,3'-Dichlorobenzidine	400	0.08	30.0000	U	1.0000	U	28.0000	U	1.0000	U	28.0000	U	1.0000	U	28.0000	U	1.0000	U	29.0000	U	1.0000	U	27.0000	U	1.0000	U
3-Methylphenol/4-Methylphenol	30	38	46.0000	U	1.0000	U	43.0000	U	1.0000	U	42.0000	U	1.0000	U	42.0000	U	1.0000	U	44.0000	U	1.0000	U	42.0000	U	1.0000	U
3-Nitroaniline	100	23	34.0000	U	0.6400	U	32.0000	U	0.6400	U	32.0000	U	0.6400	U	32.0000	U	0.6400	U	33.0000	U	0.6400	U	32.0000	U	0.6400	U
4-Bromophenyl-phenylether	NA		34.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	3.0000	J	33.0000	U	1.0000	U	32.0000	U	1.0000	U
4-Chloro-3-methylphenol	400	68	46.0000	U	1.0000	U	43.0000	U	1.0000	U	42.0000	U	1.0000	U	42.0000	U	1.0000	U	44.0000	U	1.0000	U	42.0000	U	1.0000	U
4-Chloroaniline	200	30	33.0000	U	1.0000	U	31.0000	U	1.0000	U	31.0000	U	1.0000	U	31.0000	U	1.0000	U	32.0000	U	1.0000	U	30.0000	U	1.0000	U
4-Chlorophenylphenyl ether	NA	NA	30.0000	U	0.7000	U	28.0000	U	0.7000	U	28.0000	U	0.7000	U	28.0000	U	0.7000	U	29.0000	U	0.7000	U	27.0000	U	0.7000	U
4-Nitroaniline	100	1.8	30.0000	U	0.8600	U	28.0000	U	0.8600	U	28.0000	U	0.8600	U	28.0000	U	0.8600	U	29.0000	U	0.8600	U	27.0000	U	0.8600	U
4-Nitrophenol	300	61	29.0000	U	5.0000	U	27.0000	U	5.0000	U	26.0000	U	5.0000	U	26.0000	U	5.0000	U	28.0000	U	5.0000	U	26.0000	U	5.0000	U
Acenaphthene	2100	20	1.1000	U	0.2300		0.9700	U	0.0250	U	0.9600	U	0.0250	U	0.9600	U	0.0460		1.0000	U	0.0250	U	0.9500	U	0.0500	
Acenaphthylene	27000	230	1.0000	U	0.2900		0.9200	U	0.0240	U	0.9100	U	0.0240	U	0.9100	U	0.0240	U	24.0000		0.0240	U	0.9000	U	0.0240	U
Anthracene	2500000	2300	15.0000		0.0310	U	1.0000	U	0.0310	U	1.0000	U	0.0310	U	1.0000	U	0.0310	U	*18.0000*		*0.0470*		1.0000	U	0.0310	U
Benzo(a)anthracene	3200	0.05	0.9200	U	0.0700	U	0.8200	U	0.0700	U	0.8100	U	0.0700	U	0.8100	U	0.0700	U	140.0000		0.0700	U	1.0000		0.0700	U
Benzo(a)pyrene	8000	0.2	1.1000	U	0.0600	U	0.9700	U	0.0600	U	0.9600	U	0.0600	U	0.9600	U	0.0600	U	190.0000		0.0600	U	1.6000		0.0600	U
Benzo(b)fluoranthene	10000	0.05	1.2000	U	0.0740	U	1.0000	U	0.0740	U	1.0000	U	0.0740	U	1.0000	U	0.0740	U	310.0000		0.0740	U	2.0000		0.0740	U
Benzo(g,h,i)perylene	32000000	230	29.0000		0.0960	U	0.6600	U	0.0960	U	0.6500	U	0.0960	U	0.6500	U	0.0960	U	250.0000		0.0960	U	2.3000		0.0960	U
Benzo(k)fluoranthene	25000	0.5	1.2000	U	0.0580	U	1.0000	U	0.0580	U	1.0000	U	0.0580	U	1.0000	U	0.0580	U	240.0000		0.0580	U	1.6000		0.0580	U
bis(2-Chloroethoxy)methane	NA	NA	37.0000	U	1.0000	U	34.0000	U	1.0000	U	34.0000	U	1.0000	U	34.0000	U	1.0000	U	36.0000	U	1.0000	U	34.0000	U	1.0000	U
bis(2-Chloroethyl)ether	20	0.03	42.0000	U	1.0000	U	40.0000	U	1.0000	U	39.0000	U	1.0000	U	39.0000	U	1.0000	U	41.0000	U	1.0000	U	39.0000	U	1.0000	U
bis(2-Ethylhexyl)phthalate (BEHP)	3600000	6	88.0000		2.4000	U	47.0000	U	2.4000	U	47.0000	U	2.4000	U	47.0000	U	2.4000	U	49.0000	U	2.4000	U	46.0000	U	2.4000	U
Butylbenzylphthalate	310000	150	37.0000	U	0.7400	U	34.0000	U	0.7400	U	34.0000	U	0.7400	U	34.0000	U	0.7400	U	36.0000	U	0.7400	U	34.0000	U	0.7400	U
Carbazole	600	1.9	34.0000	U	0.5400	U	32.0000	U	0.5400	U	32.0000	U	0.5400	U	32.0000	U	0.5400	U	*100.0000*		*1.1000*		32.0000	U	0.5400	U
Chrysene	77000	5.2	1.2000	U	0.0880	U	1.1000	U	0.0880	U	1.1000	U	0.0880	U	1.1000	U	0.0880	U	180.0000		0.0880	U	1.1000		0.0880	U
Dibenz(a,h)anthracene	30000	0.005	1.1000	U	0.0650	U	0.9500	U	0.0650	U	0.9400	U	0.0650	U	0.9400	U	0.0650	U	47.0000		0.0650	U	0.9300	U	0.0650	U
Dibenzofuran	15000	30	39.0000	U	1.0000	U	36.0000	U	1.0000	U	36.0000	U	1.0000	U	36.0000	U	1.0000	U	38.0000	U	1.0000	U	36.0000	U	1.0000	U
Diethylphthalate	86000	6100	40.0000	U	1.0000	U	38.0000	U	1.0000	U	37.0000	U	1.0000	U	37.0000	U	1.0000	U	39.0000	U	1.0000	U	37.0000	U	1.0000	U
Dimethylphthalate	380000	76000	40.0000	U	0.5700	U	38.0000	U	0.5700	U	37.0000	U	0.5700	U	37.0000	U	0.5700	U	39.0000	U	0.5700	U	37.0000	U	0.5700	U
Di-n-butylphthalate	47000	NA	45.0000	U	1.0000	U	42.0000	U	1.0000	U	41.0000	U	1.0000	U	41.0000	U	1.0000	U	43.0000	U	1.0000	U	41.0000	U	1.0000	U
Di-n-octylphthalate	480000000	150	37.0000	U	1.2000	U	34.0000	U	1.2000	U	34.0000	U	1.2000	U	34.0000	U	1.2000	U	36.0000	U	1.2000	U	34.0000	U	1.2000	U
Fluoranthene	1200000	300	*30.0000*		*0.0890*		0.9200	U	0.0610	U	0.9100	U	0.0610	U	0.9100	U	0.0830		*520.0000*		*0.2600*		*1.7000*		*0.1100*	
Fluorene	160000	300	0.9400	U	0.5500		0.8400	U	0.0260	U	0.8300	U	0.0260	U	0.8300	U	0.0470		1.5000		0.0260	U	0.8200	U	0.0710	
Hexachlorobenzene	2200	1	44.0000	U	0.6100	U	41.0000	U	0.6100	U	40.0000	U	0.6100	U	40.0000	U	0.6100	U	42.0000	U	0.6100	U	40.0000	U	0.6100	U
Hexachlorobutadiene	1100	0.5	31.0000	U	0.5000	U	29.0000	U	0.5000	U	29.0000	U	0.5000	U	29.0000	U	0.5000	U	30.0000	U	0.5000	U	28.0000	U	0.5000	U
Hexachlorocyclopentadiene	400000	50	310.0000	U	1.1000	U	290.0000	U	1.1000	U	290.0000	U	1.1000	U	290.0000	U	1.1000	U	300.0000	U	1.1000	U	280.0000	U	1.1000	U
Hexachloroethane	200	2.7	22.0000	U	0.7000	U	20.0000	U	0.7000	U	20.0000	U	0.7000	U	20.0000	U	0.7000	U	21.0000	U	0.7000	U	20.0000	U	0.7000	U
Indeno(1,2,3-cd)pyrene	28000	0.05	0.7800	U	0.0800	U	0.7000	U	0.0800	U	0.6900	U	0.0800	U	0.6900	U	0.0800	U	97.0000		0.0800	U	0.7500		0.0800	U
Isophorone	200	40	30.0000	U	1.0000	U	28.0000	U	1.0000	U	28.0000	U	1.0000	U	28.0000	U	1.0000	U	29.0000	U	1.0000	U	27.0000	U	1.0000	U
Naphthalene	1700	15	*1300.0000*	*D*	***56.0000***	*D*	0.7600	U	0.0280	U	0.7600	U	0.0280	U	0.7600	U	0.0540	U	0.7900	U	0.0350	U	0.7500	U	0.0540	U
Nitrobenzene	30	3.8	36.0000	U	1.0000	U	33.0000	U	1.0000	U	33.0000	U	1.0000	U	33.0000	U	1.0000	U	34.0000	U	1.0000	U	33.0000	U	1.0000	U
N-Nitroso-di-n-propylamine	40	0.005	34.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	1.0000	U	33.0000	U	1.0000	U	32.0000	U	1.0000	U
N-Nitrosodiphenylamine	400	7.8	34.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	1.0000	U	32.0000	U	1.0000	U	33.0000	U	1.0000	U	32.0000	U	1.0000	U
Pentachlorophenol	30	1	39.0000	U	2.0000	U	36.0000	U	2.0000	U	36.0000	U	2.0000	U	36.0000	U	2.0000	U	38.0000	U	2.0000	U	36.0000	U	2.0000	U
Phenanthrene	250000	230	*110.0000*		*0.3700*		0.8600	U	0.0580		0.8500	U	0.0580		0.8500	U	0.1400		*150.0000*		*0.2400*		0.8400	U	0.1900	
Phenol	50	10	47.0000	U	1.0000	U	44.0000	U	1.0000	U	44.0000	U	1.0000	U	44.0000	U	1.0000	U	46.0000	U	1.0000	U	43.0000	U	1.0000	U
Pyrene	880000	230	*87.0000*		*0.0710*		1.3000	U	0.0560		1.3000	U	0.0520		1.3000	U	0.0830		*370.0000*		*0.1600*		*1.7000*		*0.1000*	

Notes:
All Results in ppb
NA = Not Applicable
BOLDING in BULK indicates an exceedance of SCTL.
BOLDING in LEACHATE indicates an exceedance of GCTL.
Soil / Groundwater detection couplets shown in italics.
U =not detected
D = Detection taken from a diluted sample

Table 13
Summary of Groundwater SVOAs, OU2, 2003 RI Addendum, NASP

WELL ID -->				11GI08		11GS07		11GS09		11GS13		11GS16	11GS47		12GS14		27GS06		
	Florida CTLs (ppb)			1993	2003	1993	2003	1993	2003	1993	2003	2003	1993	2003	1995	2003	1993	1995	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,2,4-Trichlorobenzene	70	23	23	10.0000 U	0.5100 U	10.0000 U	0.5100 U	10.0000 U	0.5100 U	10.0000 U	0.5100 U	0.5100 U	10.0000 U	0.5100 U	5 U	0.5100 U	10.0000 U	10.0000 U	0.5100 U
1,2-Dichlorobenzene	600	99	99	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	na	1.0000 U	10.0000 U	10.0000 U	1.0000 U
1,3-Dichlorobenzene	230	85	85	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	na	1.0000 U	10.0000 U	10.0000 U	1.0000 U
1,4-Dichlorobenzene	75	3.3	3.3	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	na	1.0000 U	10.0000 U	10.0000 U	1.0000 U
1-Methyl naphthalene	15	95	95	na	0.0280 U	na	0.0280 U	na	0.4200	na	0.0280 U	0.0280 U	na	**28.0000**	na	0.0280 U	na	na	0.0280 U
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	NA	NA	na	0.5800 U	na	0.5800 U	na	0.5800 U	na	0.5800 U	0.5800 U	na	0.5800 U	na	0.5800 U	na	na	0.5800 U
2,4,5-Trichlorophenol	1	23	23	25.0000 U	1.1000 U	25.0000 U	1.1000 U	25.0000 U	1.1000 U	25.0000 U	1.1000 U	1.1000 U	25.0000 U	1.1000 U	20 U	1.1000 U	25.0000 U	25.0000 U	1.1000 U
2,4,6-Trichlorophenol	3.5	6.5	6.5	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	1.1000 U	10.0000 U	1.1000 U	5 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U
2,4-Dichlorophenol	0.3	13	13	10.0000 U	0.7600 U	10.0000 U	0.7600 U	10.0000 U	0.7600 U	10.0000 U	0.7600 U	0.7600 U	10.0000 U	0.7600 U	5 U	0.7600 U	10.0000 U	10.0000 U	0.7600 U
2,4-Dimethylphenol	150	160	160	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	1.1000 U	10.0000 U	1.1000 U	5 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U
2,4-Dinitrophenol	15	3	3	25.0000 UJ	10.0000 U	25.0000 U	10.0000 U	25.0000 U	10.0000 U	25.0000 UR	10.0000 U	10.0000 U	25.0000 U	10.0000 U	20 U	10.0000 U	25.0000 U	25.0000 U	10.0000 U
2,4-Dinitrotoluene	0.06	9.1	9.1	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	1.1000 U	10.0000 U	1.1000 U	5 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U
2,6-Dinitrotoluene	0.06	0.8	0.8	10.0000 U	0.8700 U	10.0000 U	0.8700 U	10.0000 U	0.8700 U	10.0000 U	0.8700 U	0.8700 U	10.0000 U	0.8700 U	5 U	0.8700 U	10.0000 U	10.0000 U	0.8700 U
2-Chloronaphthalene	610	1700	1700	10.0000 U	1.0000 U	10.0000 U	1.0000 U	4.0000 J	2.8000 J	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
2-Chlorophenol	38	130	130	10.0000 U	0.7900 U	10.0000 U	0.7900 U	10.0000 U	0.7900 U	10.0000 U	0.7900 U	0.7900 U	10.0000 U	0.7900 U	5 U	0.7900 U	10.0000 U	10.0000 U	0.7900 U
2-Methyl-4,6-Dinitrophenol	NA	NA	NA	25.0000 U	10.0000 U	25.0000 U	10.0000 U	25.0000 U	10.0000 U	25.0000 UJ	10.0000 U	10.0000 U	25.0000 U	10.0000 U	20 U	10.0000 U	25.0000 U	25.0000 U	10.0000 U
2-Methylnaphthalene	15	30	30	10.0000 U	0.0220 U	10.0000 U	0.0220 U	10.0000 U	0.0500 J	10.0000 U	0.0220 U	0.0220 U	**25.0000**	**39.0000**	5 U	0.0220 U	10.0000 U	10.0000 U	0.0220 U
2-Methylphenol (o-Cresol)	38	250	250	10.0000 U	0.5900 U	10.0000 U	0.5900 U	10.0000 U	0.5900 U	10.0000 U	0.5900 U	0.5900 U	10.0000 U	0.5900 U	5 U	0.5900 U	10.0000 U	10.0000 U	0.5900 U
2-Nitroaniline	23	NA	NA	25.0000 U	0.7200 U	25.0000 U	0.7200 U	25.0000 U	0.7200 U	25.0000 U	0.7200 U	0.7200 U	25.0000 U	0.7200 U	20 U	0.7200 U	25.0000 U	25.0000 U	0.7200 U
2-Nitrophenol	NA	NA	NA	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	1.1000 U	10.0000 U	1.1000 U	5 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U
3,3'-Dichlorobenzidine	0.08	0.03	0.03	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 UJ	1.0000 U	10.0000 U	10.0000 U	1.0000 U
3-Methylphenol/4-Methylphenol 1	3.8	70	70	na	1.0000 U	na	1.0000 U	na	1.0000 U	na	1.0000 U	1.0000 U	na	1.0000 U	na	1.0000 U	na	na	1.0000 U
3-Nitroaniline	1.8	NA	NA	25.0000 U	0.6400 U	25.0000 UJ	0.6400 U	25.0000 U	0.6400 U	25.0000 U	0.6400 U	0.6400 U	25.0000 UJ	0.6400 U	20 U	0.6400 U	25.0000 U	25.0000 U	0.6400 U
4-Bromophenyl-phenylether	NA	NA	NA	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
4-Chloro-3-methylphenol	68	100	100	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
4-Chloroaniline	30	2.5	2.5	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
4-Chlorophenylphenyl ether	NA	NA	NA	10.0000 U	0.7000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	0.7000 U	10.0000 U	0.7000 U	5 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U
4-Methylphenol (p-Cresol)	3.8	70	70	10.0000 U	na	10.0000 U	na	10.0000 U	na	10.0000 U	na	na	10.0000 U	na	5 U	na	10.0000 U	10.0000 U	na
4-Nitroaniline	1.8	1200	1200	25.0000 U	0.8600 U	25.0000 U	0.8600 U	25.0000 U	0.8600 U	25.0000 U	0.8600 U	0.8600 U	25.0000 U	0.8600 U	20 U	0.8600 U	25.0000 U	25.0000 U	0.8600 U
4-Nitrophenol	61	55	55	25.0000 U	5.0000 U	25.0000 U	5.0000 U	25.0000 U	5.0000 U	25.0000 U	5.0000 U	5.0000 U	25.0000 U	5.0000 U	20 U	5.0000 U	25.0000 U	25.0000 U	5.0000 U
Acenaphthene	20	3	3	10.0000 U	0.0250 U	10.0000 U	0.0250 U	1.0000 J	0.9200	10.0000 U	0.0930	0.0250 U	10.0000 U	0.1200 U	5 U	0.0250 U	10.0000 U	10.0000 U	0.0250 U
Acenaphthylene	230	**	**	10.0000 U	0.0240 U	10.0000 U	0.0240 U	10.0000 U	0.0590 J	10.0000 U	0.0240 U	0.0240 U	10.0000 U	0.1200 U	5 U	0.0240 U	10.0000 U	10.0000 U	0.0240 U
Anthracene	2300	0.3	0.3	10.0000 U	0.0310 U	10.0000 U	0.0310 U	10.0000 U	0.0570 J	10.0000 U	0.0310 U	0.0310 U	10.0000 U	0.1600 U	5 U	0.0310 U	10.0000 U	10.0000 U	0.0310 U
Benzo(a)anthracene	0.05	**	**	10.0000 U	0.0700 U	10.0000 U	0.0700 U	10.0000 U	0.0700 U	10.0000 U	0.0700 U	0.0700 U	10.0000 U	0.3500 U	5 U	0.0700 U	10.0000 U	10.0000 U	0.0700 U
Benzo(a)pyrene	0.2	**	**	10.0000 U	0.0600 U	10.0000 U	0.0600 U	10.0000 U	0.0600 U	10.0000 U	0.0600 U	0.0600 U	10.0000 U	0.3000 U	5 U	0.0600 U	10.0000 U	10.0000 U	0.0600 U
Benzo(b)fluoranthene	0.05	**	**	10.0000 U	0.0740 U	10.0000 U	0.0740 U	10.0000 U	0.0740 U	10.0000 U	0.0740 U	0.0740 U	10.0000 U	0.3700 U	5 U	0.0740 U	10.0000 U	10.0000 U	0.0740 U
Benzo(g,h,i)perylene	230	**	**	10.0000 U	0.0960 U	10.0000 U	0.0960 U	10.0000 U	0.1400 J	10.0000 U	0.0960 U	0.0960 U	10.0000 U	0.4800 U	5 U	0.0960 U	10.0000 U	10.0000 U	0.0960 U
Benzo(k)fluoranthene	0.5	**	**	10.0000 U	0.0580 U	10.0000 U	0.0580 U	10.0000 U	0.0580 U	10.0000 U	0.0580 U	0.0580 U	10.0000 U	0.2900 U	5 U	0.0580 U	10.0000 U	10.0000 U	0.0580 U
bis(2-Chloroethoxy)methane	NA	NA	NA	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
bis(2-Chloroethyl)ether	0.03	0.6	0.6	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Bis(2-Chloroisopropyl)Ether	0.5	25	25	10.0000 U	na	10.0000 U	na	10.0000 U	na	10.0000 U	na	na	10.0000 U	na	5 U	na	10.0000 U	10.0000 U	na
bis(2-Ethylhexyl)phthalate (BEHP)	6	2.4	2.4	10.0000 U	2.4000 U	10.0000 U	2.4000 U	10.0000 U	2.4000 U	1.0000 J	2.4000 U	2.4000 U	2.0000 J	2.4000 U	5 U	2.4000 U	10.0000 U	10.0000 U	2.4000 U
Butylbenzylphthalate	150	26	26	10.0000 U	0.7400 U	10.0000 U	0.7400 U	10.0000 U	0.7400 U	10.0000 U	0.7400 U	0.7400 U	10.0000 U	0.7400 U	5 U	0.7400 U	10.0000 U	10.0000 U	0.7400 U
Carbazole	1.9	47	47	10.0000 U	0.5400 U	10.0000 U	0.5400 U	10.0000 U	0.5400 U	10.0000 U	0.5400 U	0.5400 U	10.0000 U	0.5400 U	na	0.5400 U	10.0000 U	10.0000 U	0.5400 U
Chrysene	5.2	**	**	10.0000 U	0.0880 U	10.0000 U	0.0880 U	10.0000 U	0.0880 U	10.0000 U	0.0880 U	0.0880 U	10.0000 U	0.4400 U	5 U	0.0880 U	10.0000 U	10.0000 U	0.0880 U
Dibenz(a,h)anthracene	0.005	**	**	10.0000 U	0.0650 U	10.0000 U	0.0650 U	10.0000 U	0.0650 U	10.0000 U	0.0650 U	0.0650 U	10.0000 U	0.3200 U	5 U	0.0650 U	10.0000 U	10.0000 U	0.0650 U
Dibenzofuran	30	67	67	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Diethylphthalate	6100	380	380	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Dimethylphthalate	76000	1400	1400	10.0000 U	0.5700 U	10.0000 U	0.5700 U	10.0000 U	0.5700 U	10.0000 U	0.5700 U	0.5700 U	10.0000 U	0.5700 U	5 U	0.5700 U	10.0000 U	10.0000 U	0.5700 U
Di-n-butylphthalate	NA	NA	NA	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Di-n-octylphthalate	150	NA	NA	10.0000 U	1.2000 U	10.0000 U	1.2000 U	10.0000 U	1.2000 U	10.0000 U	1.2000 U	1.2000 U	10.0000 U	1.2000 U	5 U	1.2000 U	10.0000 U	10.0000 U	1.2000 U
Diphenylamine	190	NA	NA	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	300	0.3	0.3	10.0000 U	0.0610 U	10.0000 U	0.0610 U	10.0000 U	0.1200 J	10.0000 U	0.0610 U	0.0610 U	10.0000 U	0.3000 U	5 U	0.0610 U	10.0000 U	10.0000 U	0.0610 U
Fluorene	300	30	30	10.0000 U	0.0260 U	10.0000 U	0.0260 U	10.0000 U	0.1500 J	10.0000 U	0.0260 U	0.0260 U	10.0000 U	0.6100	5 U	0.0260 U	10.0000 U	10.0000 U	0.0260 U
Hexachlorobenzene	1	0.0003	0.0003	10.0000 U	0.6100 U	10.0000 U	0.6100 U	10.0000 U	0.6100 U	10.0000 U	0.6100 U	0.6100 U	10.0000 U	0.6100 U	5 U	0.6100 U	10.0000 U	10.0000 U	0.6100 U
Hexachlorobutadiene	0.5	49.7	49.7	10.0000 U	0.5000 U	10.0000 U	0.5000 U	10.0000 U	0.5000 U	10.0000 U	0.5000 U	0.5000 U	10.0000 U	0.5000 U	5 U	0.5000 U	10.0000 U	10.0000 U	0.5000 U
Hexachlorocyclopentadiene	50	3	3	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	1.1000 U	10.0000 U	1.1000 U	5 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U
Hexachloroethane	2.7	3.6	3.6	10.0000 U	0.7000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	0.7000 U	10.0000 U	0.7000 U	5 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U
Indeno(1,2,3-cd)pyrene	0.05	**	**	10.0000 U	0.0800 U	10.0000 U	0.0800 U	10.0000 U	0.0800 U	10.0000 U	0.0800 U	0.0800 U	10.0000 U	0.4000 U	5 U	0.0800 U	10.0000 U	10.0000 U	0.0800 U
Isophorone	40	650	650	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Naphthalene	15	26	26	10.0000 U	0.0280 U	10.0000 U	0.0280 U	10.0000 U	0.0930 U	10.0000 U	0.0280 U	0.0280 U	**47.0000**	5.2000	5 U	0.0280 U	10.0000 U	10.0000 U	0.0280 U
Nitrobenzene	3.8	90	90	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
N-Nitroso-di-n-propylamine	0.005	0.5	0.5	10.0000 U	1.0000 U	10.0000 UJ	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
N-Nitrosodiphenylamine	7.8	6.5	6.5	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Pentachlorophenol	1	8.2	8.2	25.0000 U	2.0000 U	25.0000 U	2.0000 U	25.0000 U	2.0000 U	25.0000 U	2.0000 U	2.0000 U	25.0000 U	2.0000 U	20 U	2.0000 U	25.0000 U	25.0000 U	2.0000 U
Phenanthrene	230	**	**	10.0000 U	0.0250 U	10.0000 U	0.0250 U	10.0000 U	0.0460 J	10.0000 U	0.0250 U	0.0250 U	10.0000 U	0.2300	5 U	0.0250 U	10.0000 U	10.0000 U	0.0250 U
Phenol	10	6.5	6.5	10.0000 U	1.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	14.0000 U	1.0000 U	1.0000 U	10.0000 U	1.0000 U	5 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U
Pyrene	230	0.3	0.3	10.0000 U	0.0420 U	10.0000 U	0.0420 U	10.0000 U	0.1300 J	10.0000 U	0.0420 U	0.0440	10.0000 U	0.2100 U	5 U	0.0420 U	10.0000 U	10.0000 U	0.0420 U

Notes:
all results in ppb
GCTL exceedances in BOLD
NA = not applicable
** = FSWCTL & MSWCTL for total PAHs = 0.031 ug/L
1 = more conservative 4-methylphenol criteria used over 3-methylphenol
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 13
Summary of Groundwater SVOAs, OU2, 2003 RI Addendum, NASP

WELL ID -->				27GS17		27GS18				27GS19				27GS20				30GI111				30GI126			
	Florida CTLs (ppb)			2003		1993		1995		2003		1993		1995		2003		1993		1995		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
1,2,4-Trichlorobenzene	70	23	23	0.5100	U	10.0000	U	10.0000	U	0.5100	U	20.0000	U	10.0000	U	0.5100	U	10.0000	U	10.0000	U	0.7700	J	12.0000	U	10.0000	U	0.5100	U	10.0000	U	0.5100	U
1,2-Dichlorobenzene	600	99	99	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	39.0000		42.0000		38.0000		10.0000	U	1.0000	U
1,3-Dichlorobenzene	230	85	85	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	37.0000		37.0000		32.0000		10.0000	U	1.0000	U
1,4-Dichlorobenzene	75	3.3	3.3	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	**180.0000**	J	**140.0000**	D	**100.0000**		10.0000	U	1.0000	U
1-Methyl naphthalene	15	95	95	0.2100		na		na		5.0000		na		na		8.5000		na		na		0.5400		na		na		0.0280	U	na		0.0280	U
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	NA	NA	0.5800	U	na		na		0.5800	U	na		na		0.5800	U	na		na		0.5800	U	na		na		0.5800	U	na		0.5800	U
2,4,5-Trichlorophenol	1	23	23	1.1000	U	25.0000	U	4.0000	U	1.1000	U	50.0000	U	4.0000	U	1.1000	U	25.0000	U	4.0000	U	1.1000	U	29.0000	U	4.0000	U	1.1000	U	25.0000	U	1.1000	U
2,4,6-Trichlorophenol	3.5	6.5	6.5	1.1000	U	10.0000	U	10.0000	U	1.1000	U	20.0000	U	10.0000	U	1.1000	U	10.0000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U
2,4-Dichlorophenol	0.3	13	13	0.7600	U	10.0000	U	4.0000	U	0.7600	U	20.0000	U	4.0000	U	0.7600	U	10.0000	U	4.0000	U	0.7600	U	**3.0000**	J	**3.2000**	J	**1.3000**	J	10.0000	U	0.7600	U
2,4-Dimethylphenol	150	160	160	1.1000	U	2.0000	J	10.0000	U	1.1000	U	8.0000	J	10.0000	U	1.1000	U	10.0000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U
2,4-Dinitrophenol	15	3	3	10.0000	U	25.0000	U	25.0000	UJ	10.0000	U	50.0000	U	25.0000	UJ	10.0000	U	25.0000	U	25.0000	UJ	10.0000	U	29.0000	U	25.0000	UJ	10.0000	U	25.0000	U	10.0000	U
2,4-Dinitrotoluene	0.06	9.1	9.1	1.1000	U	10.0000	U	10.0000	U	1.1000	U	20.0000	U	10.0000	U	1.1000	U	10.0000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U
2,6-Dinitrotoluene	0.06	0.8	0.8	0.8700	U	10.0000	U	10.0000	U	0.8700	U	20.0000	U	10.0000	U	0.8700	U	10.0000	U	10.0000	U	0.8700	U	12.0000	U	10.0000	U	0.8700	U	10.0000	U	0.8700	U
2-Chloronaphthalene	610	1700	1700	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
2-Chlorophenol	38	130	130	0.7900	U	10.0000	U	10.0000	U	0.7900	U	20.0000	U	10.0000	U	0.7900	U	10.0000	U	10.0000	U	0.7900	U	6.0000	J	6.5000	J	2.9000	J	10.0000	U	0.7900	U
2-Methyl-4,6-Dinitrophenol	NA	NA	NA	10.0000	U	25.0000	U	25.0000	U	10.0000	U	50.0000	U	25.0000	U	10.0000	U	25.0000	U	25.0000	U	10.0000	U	29.0000	U	25.0000	U	10.0000	U	25.0000	U	10.0000	U
2-Methylnaphthalene	15	30	30	0.4400		7.0000	J	4.5000	J	7.3000		**28.0000**		6.3000	J	12.0000		10.0000	U	10.0000	U	0.1400		12.0000	U	10.0000	U	0.0220	U	10.0000	U	0.0220	U
2-Methylphenol (o-Cresol)	38	250	250	0.5900	U	10.0000	U	10.0000	U	0.5900	U	20.0000	U	10.0000	U	0.5900	U	10.0000	U	10.0000	U	0.5900	U	12.0000	U	10.0000	U	0.5900	U	10.0000	U	0.5900	U
2-Nitroaniline	23	NA	NA	0.7200	U	25.0000	U	7.5000	U	0.7200	U	50.0000	U	7.5000	U	0.7200	U	25.0000	U	7.5000	U	0.7200	U	29.0000	U	7.5000	U	0.7200	U	25.0000	U	0.7200	U
2-Nitrophenol	NA	NA	NA	1.1000	U	10.0000	U	10.0000	U	1.1000	U	20.0000	U	10.0000	U	1.1000	U	10.0000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U
3,3'-Dichlorobenzidine	0.08	0.03	0.03	1.0000	U	10.0000	U	14.0000	U	1.0000	U	20.0000	U	14.0000	U	1.0000	U	10.0000	U	14.0000	U	1.0000	U	12.0000	U	14.0000	U	1.0000	U	10.0000	U	1.0000	U
3-Methylphenol/4-Methylphenol 1	3.8	70	70	1.0000	U	na		10.0000	U	**29.0000**		na		**20.0000**		**110.0000**		na		10.0000	U	1.0000	U	na		10.0000	U	1.0000	U	na		1.0000	U
3-Nitroaniline	1.8	NA	NA	0.6400	U	25.0000	U	25.0000	U	0.6400	U	50.0000	U	25.0000	U	0.6400	U	25.0000	U	25.0000	U	0.6400	U	29.0000	U	25.0000	U	0.6400	U	25.0000	UJ	0.6400	U
4-Bromophenyl-phenylether	NA	NA	NA	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
4-Chloro-3-methylphenol	68	100	100	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
4-Chloroaniline	30	2.5	2.5	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
4-Chlorophenylphenyl ether	NA	NA	NA	0.7000	U	10.0000	U	10.0000	U	0.7000	U	20.0000	U	10.0000	U	0.7000	U	10.0000	U	10.0000	U	0.7000	U	12.0000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U
4-Methylphenol (p Cresol)	3.8	70	70	na		**4.0000**	J	na		na		**30.0000**		na		na		10.0000	U	na		na		12.0000	U	na		na		10.0000	U	na	
4-Nitroaniline	1.8	1200	1200	0.8600	U	25.0000	U	25.0000	U	0.8600	U	50.0000	U	25.0000	U	0.8600	U	25.0000	U	25.0000	U	0.8600	U	29.0000	U	25.0000	U	0.8600	U	25.0000	UJ	0.8600	U
4-Nitrophenol	61	55	55	5.0000	U	25.0000	U	15.0000	U	5.0000	U	50.0000	U	15.0000	UJ	5.0000	U	25.0000	U	15.0000	UJ	5.0000	U	29.0000	UJ	15.0000	UJ	5.0000	U	25.0000	U	5.0000	U
Acenaphthene	20	3	3	0.0280		10.0000	U	10.0000	U	0.0250	U	20.0000	U	10.0000	U	0.0910		10.0000	U	10.0000	U	0.0360		12.0000	U	10.0000	U	0.0250	U	10.0000	U	0.0250	U
Acenaphthylene	230	**	**	0.1300		10.0000	U	10.0000	U	0.0240	U	20.0000	U	10.0000	U	0.2200		10.0000	U	10.0000	U	0.1500		12.0000	U	10.0000	U	0.0240	U	10.0000	U	0.0240	U
Anthracene	2300	0.3	0.3	0.0310	U	10.0000	U	10.0000	U	0.0310	U	20.0000	U	10.0000	U	0.0390	U	10.0000	U	10.0000	U	0.0310	U	12.0000	U	10.0000	U	0.0310	U	10.0000	U	0.0310	U
Benzo(a)anthracene	0.05	**	**	0.0700	U	10.0000	U	4.0000	U	0.0700	U	20.0000	U	4.0000	U	0.0890	U	10.0000	U	4.0000	U	0.0700	U	12.0000	U	4.0000	U	0.0700	U	10.0000	U	0.0700	U
Benzo(a)pyrene	0.2	**	**	0.0600	U	10.0000	U	0.5900	U	0.0600	U	20.0000	U	0.5900	U	0.0760	U	10.0000	U	0.5900	U	0.0600	U	12.0000	U	0.5900	U	0.0600	U	10.0000	U	0.0600	U
Benzo(b)fluoranthene	0.05	**	**	0.0740	U	10.0000	U	4.0000	U	0.0740	U	20.0000	U	4.0000	U	0.0940	U	10.0000	U	4.0000	U	0.0740	U	12.0000	U	4.0000	U	0.0740	U	10.0000	U	0.0740	U
Benzo(g,h,i)perylene	230	**	**	0.0960	U	10.0000	U	10.0000	U	0.0960	U	20.0000	U	10.0000	UJ	0.1200	U	10.0000	U	10.0000	UJ	0.0960	U	12.0000	U	10.0000	UJ	0.0960	U	10.0000	U	0.0960	U
Benzo(k)fluoranthene	0.5	**	**	0.0580	U	10.0000	U	4.0000	U	0.0580	U	20.0000	U	4.0000	U	0.0730	U	10.0000	U	4.0000	U	0.0580	U	12.0000	U	4.0000	U	0.0580	U	10.0000	U	0.0580	U
bis(2-Chloroethoxy)methane	NA	NA	NA	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
bis(2-Chloroethyl)ether	0.03	0.6	0.6	1.0000	U	10.0000	U	1.5000	U	1.0000	U	20.0000	U	1.5000	U	1.0000	U	10.0000	U	1.5000	U	1.0000	U	12.0000	U	1.5000	U	1.0000	U	10.0000	U	1.0000	U
Bis(2-Chloroisopropyl)Ether	0.5	25	25	na		10.0000	U	7.5000	U	na		20.0000	U	7.5000	U	na		10.0000	U	7.5000	U	na		12.0000	UJ	7.5000	U	na		10.0000	U	na	
bis(2-Ethylhexyl)phthalate (BEHP)	6	2.4	2.4	2.4000	U	10.0000	U	2.0000	J	2.4000	U	20.0000	U	**7.7000**	J	2.4000	U	10.0000	U	**9.3000**	J	2.4000	U	12.0000	U	10.0000	UJ	2.4000	U	10.0000	U	2.4000	U
Butylbenzylphthalate	150	26	26	0.7400	U	10.0000	U	10.0000	U	0.7400	U	20.0000	U	0.9900	J	0.7400	U	10.0000	U	1.0000	J	0.7400	U	12.0000	U	10.0000	UJ	0.7400	U	10.0000	U	0.7400	U
Carbazole	1.9	47	47	0.5400	U	10.0000	U	7.5000	U	0.5400	U	20.0000	U	7.5000	U	0.5400	U	10.0000	U	7.5000	U	0.5400	U	12.0000	U	7.5000	U	0.5400	U	10.0000	UJ	0.5400	U
Chrysene	5.2	**	**	0.0880	U	10.0000	U	5.0000	U	0.0880	U	20.0000	U	5.0000	U	0.1100	U	10.0000	U	5.0000	U	0.0880	U	12.0000	U	5.0000	U	0.0880	U	10.0000	U	0.0880	U
Dibenz(a,h)anthracene	0.005	**	**	0.0650	U	10.0000	U	7.5000	U	0.0650	U	20.0000	U	7.5000	U	0.0820	U	10.0000	U	7.5000	U	0.0650	U	12.0000	U	7.5000	U	0.0650	U	10.0000	U	0.0650	U
Dibenzofuran	30	67	67	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
Diethylphthalate	6100	380	380	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
Dimethylphthalate	76000	1400	1400	0.5700	U	10.0000	U	10.0000	U	0.5700	U	20.0000	U	10.0000	U	0.5700	U	10.0000	U	10.0000	U	0.5700	U	12.0000	U	10.0000	U	0.5700	U	10.0000	U	0.5700	U
Di-n-butylphthalate	NA	NA	NA	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	0.4100	J	1.0000	U	10.0000	U	10.0000	UJ	1.0000	U	12.0000	U	10.0000	UJ	1.0000	U	10.0000	U	1.0000	U
Di-n-octylphthalate	150	NA	NA	1.2000	U	10.0000	U	10.0000	U	1.2000	U	20.0000	U	0.2200	J	1.2000	U	10.0000	U	10.0000	UJ	1.2000	U	12.0000	U	10.0000	UJ	1.2000	U	10.0000	U	1.2000	U
Diphenylamine	190	NA	NA	na		na		7.0000	U	na		na		7.0000	U	na		na		7.0000	U	na		na		7.0000	U	na		na		na	
Fluoranthene	300	0.3	0.3	0.0610	U	10.0000	U	10.0000	U	0.0610	U	20.0000	U	10.0000	U	0.0770	U	10.0000	U	10.0000	U	0.0610	U	12.0000	U	10.0000	U	0.0610	U	10.0000	U	0.0610	U
Fluorene	300	30	30	0.0260	U	10.0000	U	10.0000	U	0.0260	U	20.0000	U	10.0000	U	0.0330	U	10.0000	U	10.0000	U	0.0260	U	12.0000	U	10.0000	U	0.0260	U	10.0000	U	0.0260	U
Hexachlorobenzene	1	0.0003	0.0003	0.6100	U	10.0000	U	1.0000	U	0.6100	U	20.0000	U	1.0000	U	0.6100	U	10.0000	U	1.0000	U	0.6100	U	12.0000	U	1.0000	U	0.6100	U	10.0000	U	0.6100	U
Hexachlorobutadiene	0.5	49.7	49.7	0.5000	U	10.0000	U	10.0000	U	0.5000	U	20.0000	U	10.0000	U	0.5000	U	10.0000	U	10.0000	U	0.5000	U	12.0000	U	10.0000	U	0.5000	U	10.0000	UJ	0.5000	U
Hexachlorocyclopentadiene	50	3	3	1.1000	U	10.0000	U	10.0000	U	1.1000	U	20.0000	U	10.0000	U	1.1000	U	10.0000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U
Hexachloroethane	2.7	3.6	3.6	0.7000	U	10.0000	U	10.0000	U	0.7000	U	20.0000	U	10.0000	U	0.7000	U	10.0000	U	10.0000	U	0.7000	U	12.0000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U
Indeno(1,2,3-cd)pyrene	0.05	**	**	0.0800	U	10.0000	U	7.5000	U	0.0800	U	20.0000	U	7.5000	U	0.1000	U	10.0000	U	7.5000	U	0.0800	U	12.0000	U	7.5000	U	0.0800	U	10.0000	UJ	0.0800	U
Isophorone	40	650	650	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U
Naphthalene	15	26	26	0.0950	U	**34.0000**		**49.0000**		**47.0000**	D	**110.0000**		**50.0000**		**150.0000**	D	8.0000	J	6.8000	U	2.0000		12.0000	U	3.5000	J	1.5000		10.0000	U	0.0280	U
Nitrobenzene	3.8	90	90	1.0000	U	10.0000	U	9.5000	U	1.0000	U	20.0000	U	9.5000	U	1.0000	U	10.0000	U	9.5000	U	1.0000	U	12.0000	U	9.5000	U	1.0000	U	10.0000	U	1.0000	U
N-Nitroso-di-n-propylamine	0.005	0.5	0.5	1.0000	U	10.0000	U	4.0000	U	1.0000	U	20.0000	U	4.0000	U	1.0000	U	10.0000	U	4.0000	U	1.0000	U	12.0000	U	4.0000	U	1.0000	U	10.0000	U	1.0000	U
N-Nitrosodiphenylamine	7.8	6.5	6.5	1.0000	U	10.0000	U	na		1.0000	U	20.0000	U	na		1.0000	U	10.0000	U	na		1.0000	U	12.0000	U	na		1.0000	U	10.0000	U	1.0000	U
Pentachlorophenol	1	8.2	8.2	2.0000	U	25.0000	U	1.0000	U	2.0000	U	50.0000	U	**1.7000**	J	2.0000	U	25.0000	U	1.0000	U	2.0000	U	29.0000	U	1.0000	U	2.0000	U	25.0000	U	2.0000	U
Phenanthrene	230	**	**	0.0250	U	10.0000	U	10.0000	U	0.0250	U	20.0000	U	10.0000	U	0.0320	U	10.0000	U	10.0000	U	0.0250	U	12.0000	U	10.0000	U	0.0250	U	10.0000	U	0.0250	U
Phenol	10	6.5	6.5	1.0000	U	10.0000	U	10.0000	U	1.0000	U	20.0000	U	10.0000	U	1.0000	U	10.0000	U	10.0000	U	1.0000	U	12.0000	U	6.9000	J	1.0000	U	3.0000	J	1.0000	U
Pyrene	230	0.3	0.3	0.0510		10.0000	U	10.0000	U	0.0460		20.0000	U	10.0000	U	0.0530	U	10.0000	U	10.0000	U	0.0420	U	12.0000	U	10.0000	U	0.0420	U	10.0000	U	0.0420	U

Notes:
all results in ppb
GCTL exceedances in BOLD
NA = not applicable
** = FSWCTL & MSWCTL for total PAHs = 0.031 ug/l
1 = more conservative 4-methylphenol criteria used over 3-methylphenol
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 13
Summary of Groundwater SVOAs, OU2, 2003 RI Addendum, NASP

WELL ID -->				30GI164				30GMW03				30GS06					30GS11				30GS18				30GS22				
	Florida CTLs (ppb)			1993		2003		1993		2003		1993		1995		2003	1993		2003		1993		2003		1993		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	Result		Result		Result		Result		Result		Result		Result	Result		Result		Result		Result		Result		Result		Result	
1,2,4-Trichlorobenzene	70	23	23	11.0000	U	0.5400	J	11.0000	U	0.5100	U	11.0000	U	10.0000	U	0.5100	U	10.0000	U	0.5100	U	10.0000	U	0.5100	U	12.0000	U	10.0000	U	0.5100	U
1,2-Dichlorobenzene	600	99	99	11.0000	U	3.6000	J	11.0000	U	1.0000	U	3.0000	J	10.0000	U	19.0000		10.0000	U	1.0000	U	10.0000	U	1.1000	J	12.0000	U	10.0000	U	1.0000	U
1,3-Dichlorobenzene	230	85	85	11.0000	U	1.0000	U	11.0000	U	1.0000	U	1.0000	J	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
1,4-Dichlorobenzene	75	3.3	3.3	11.0000	U	1.3000	J	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
1-Methyl naphthalene	15	95	95	na		0.0280	U	na		0.0280	U	na		na		**25.0000**	D	na		0.0960		na		0.0280	U	na		na		**17.0000**	
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	NA	NA	na		0.5800	U	na		0.5800	U	na		na		0.5800	U	na		0.5800	U	na		0.5800	U	na		na		0.5800	U
2,4,5-Trichlorophenol	1	23	23	26.0000	U	1.1000	U	27.0000	U	1.1000	U	28.0000	U	4.0000	U	1.1000	U	26.0000	U	1.1000	U	25.0000	U	1.1000	U	30.0000	U	4.0000	U	1.1000	U
2,4,6-Trichlorophenol	3.5	6.5	6.5	11.0000	U	1.1000	U	11.0000	U	1.1000	U	11.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U
2,4-Dichlorophenol	0.3	13	13	11.0000	U	0.7600	U	11.0000	U	0.7600	U	11.0000	U	4.0000	U	0.7600	U	10.0000	U	0.7600	U	10.0000	U	0.7600	U	12.0000	U	4.0000	U	0.7600	U
2,4-Dimethylphenol	150	160	160	11.0000	U	1.1000	U	11.0000	U	1.1000	U	3.0000	J	10.0000	U	1.1000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U
2,4-Dinitrophenol	15	3	3	26.0000	U	10.0000	U	27.0000	UJ	10.0000	U	28.0000	U	25.0000	UJ	10.0000	U	26.0000	UJ	10.0000	U	25.0000	UJ	10.0000	U	30.0000	UJ	25.0000	UJ	10.0000	U
2,4-Dinitrotoluene	0.06	9.1	9.1	11.0000	U	1.1000	U	11.0000	U	1.1000	U	11.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U
2,6-Dinitrotoluene	0.06	0.8	0.8	11.0000	U	0.8700	U	11.0000	U	0.8700	U	11.0000	U	10.0000	U	0.8700	U	10.0000	U	0.8700	U	10.0000	U	0.8700	U	12.0000	U	10.0000	U	0.8700	U
2-Chloronaphthalene	610	1700	1700	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
2-Chlorophenol	38	130	130	11.0000	U	0.7900	U	11.0000	U	0.7900	U	11.0000	U	10.0000	U	0.7900	U	10.0000	U	0.7900	U	10.0000	U	0.7900	U	12.0000	U	10.0000	U	0.7900	U
2-Methyl-4,6-Dinitrophenol	NA	NA	NA	26.0000	U	10.0000	U	27.0000	U	10.0000	U	28.0000	U	25.0000	U	10.0000	U	26.0000	U	10.0000	U	25.0000	U	10.0000	U	30.0000	U	25.0000	U	10.0000	U
2-Methylnaphthalene	15	30	30	11.0000	U	0.0220	U	11.0000	U	0.0220	U	**35.0000**		10.0000	U	**32.0000**	D	10.0000	U	0.1400		10.0000	U	0.0220	U	12.0000		1.3000	J	**19.0000**	
2-Methylphenol (o-Cresol)	38	250	250	11.0000	U	0.5900	U	11.0000	U	0.5900	U	11.0000	U	10.0000	U	0.5900	U	10.0000	U	0.5900	U	10.0000	U	0.5900	U	12.0000	U	10.0000	U	0.5900	U
2-Nitroaniline	23	NA	NA	26.0000	U	0.7200	U	27.0000	U	0.7200	U	28.0000	U	7.5000	U	0.7200	U	26.0000	UJ	0.7200	U	25.0000	U	0.7200	U	30.0000	U	7.5000	U	0.7200	U
2-Nitrophenol	NA	NA	NA	11.0000	U	1.1000	U	11.0000	U	1.1000	U	11.0000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	10.0000	U	1.1000	U	12.0000	U	10.0000	U	1.1000	U
3,3'-Dichlorobenzidine	0.08	0.03	0.03	11.0000	UJ	1.0000	U	11.0000	U	1.0000	U	11.0000	UJ	14.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	UJ	1.0000	U	12.0000	U	14.0000	U	1.0000	U
3-Methylphenol/4-Methylphenol 1	3.8	70	70	na		1.0000	U	na		1.0000	U	na		10.0000	U	**40.0000**		na		1.0000	U	na		1.0000	U	na		10.0000	U	**63.0000**	
3-Nitroaniline	1.8	NA	NA	26.0000	U	0.6400	U	27.0000	U	0.6400	U	28.0000	U	25.0000	U	0.6400	U	26.0000	U	0.6400	U	25.0000	UJ	0.6400	U	30.0000	U	25.0000	U	0.6400	U
4-Bromophenyl-phenylether	NA	NA	NA	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
4-Chloro-3-methylphenol	68	100	100	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
4-Chloroaniline	30	2.5	2.5	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
4-Chlorophenylphenyl ether	NA	NA	NA	11.0000	U	0.7000	U	11.0000	U	0.7000	U	11.0000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U	12.0000	U	10.0000	U	0.7000	U
4-Methylphenol (p-Cresol)	3.8	70	70	11.0000	U	na		11.0000	U	na		**4.0000**	J	na		na		10.0000	U	na		10.0000	U	na		12.0000	U	na		na	
4-Nitroaniline	1.8	1200	1200	26.0000	UJ	0.8600	U	27.0000	U	0.8600	U	28.0000	UJ	25.0000	U	0.8600	U	26.0000	U	0.8600	U	25.0000	UJ	0.8600	U	30.0000	U	25.0000	U	0.8600	U
4-Nitrophenol	61	55	55	26.0000	U	5.0000	U	27.0000	UJ	5.0000	U	28.0000	U	15.0000	U	5.0000	U	26.0000	U	5.0000	U	25.0000	UJ	5.0000	U	30.0000	UJ	15.0000	UJ	5.0000	U
Acenaphthene	20	3	3	11.0000	U	0.0250	U	11.0000	U	0.0250	U	1.0000	J	10.0000	U	1.4000		10.0000	U	0.0250	U	10.0000	U	0.0250	U	12.0000	U	10.0000	U	0.0250	U
Acenaphthylene	230	**	**	11.0000	U	0.0240	U	11.0000	U	0.0240	U	11.0000	U	10.0000	U	0.1500		10.0000	U	0.0240	U	10.0000	U	0.0240	U	12.0000	U	10.0000	U	0.0240	U
Anthracene	2300	0.3	0.3	11.0000	U	0.0310	U	11.0000	U	0.0310	U	11.0000	U	10.0000	U	0.7100		10.0000	U	0.0310	U	10.0000	U	0.0310	U	12.0000	U	10.0000	U	0.0310	U
Benzo(a)anthracene	0.05	**	**	11.0000	U	0.0700	U	11.0000	U	0.0700	U	11.0000	U	4.0000	U	0.0700	U	10.0000	U	0.0700	U	10.0000	U	0.0700	U	12.0000	U	4.0000	U	0.0700	U
Benzo(a)pyrene	0.2	**	**	11.0000	U	0.0600	U	11.0000	U	0.0600	U	11.0000	U	0.5900	U	0.0600	U	10.0000	U	0.0600	U	10.0000	U	0.0600	U	12.0000	U	0.5900	U	0.0600	U
Benzo(b)fluoranthene	0.05	**	**	11.0000	U	0.0740	U	11.0000	U	0.0740	U	11.0000	U	4.0000	U	0.0740	U	10.0000	U	0.0740	U	10.0000	U	0.0740	U	12.0000	U	4.0000	U	0.0740	U
Benzo(g,h,i)perylene	230	**	**	11.0000	U	0.0960	U	11.0000	U	0.0960	U	11.0000	U	10.0000	U	0.0960	U	10.0000	UJ	0.0960	U	10.0000	U	0.0960	U	12.0000	U	10.0000	UJ	0.0960	U
Benzo(k)fluoranthene	0.5	**	**	11.0000	U	0.0580	U	11.0000	U	0.0580	U	11.0000	U	4.0000	U	0.0580	U	10.0000	U	0.0580	U	10.0000	U	0.0580	U	12.0000	U	4.0000	U	0.0580	U
bis(2-Chloroethoxy)methane	NA	NA	NA	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
bis(2-Chloroethyl)ether	0.03	0.6	0.6	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	1.5000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	1.5000	U	1.0000	U
Bis(2-Chloroisopropyl)Ether	0.5	25	25	11.0000	U	na		11.0000	UJ	na		11.0000	U	7.5000	U	na		10.0000	U	na		10.0000	U	na		12.0000	UJ	7.5000	U	na	
bis(2-Ethylhexyl)phthalate (BEHP)	6	2.4	2.4	11.0000	U	2.4000	U	11.0000	U	2.4000	U	11.0000	U	10.0000	U	2.4000	U	10.0000	U	2.4000	U	10.0000	U	2.4000	U	12.0000	U	**11.0000**		2.4000	U
Butylbenzylphthalate	150	26	26	11.0000	U	0.7400	U	11.0000	U	0.7400	U	11.0000	U	10.0000	U	0.7400	U	10.0000	U	0.7400	U	10.0000	U	0.7400	U	12.0000	U	1.2000	J	0.7400	U
Carbazole	1.9	47	47	11.0000	U	0.5400	U	11.0000	U	0.5400	U	**14.0000**	J	7.5000	U	**13.0000**		10.0000	U	0.5400	U	10.0000	UJ	0.5400	U	12.0000	U	7.5000	U	0.5400	U
Chrysene	5.2	**	**	11.0000	U	0.0880	U	11.0000	U	0.0880	U	11.0000	U	5.0000	U	0.0880	U	10.0000	U	0.0880	U	10.0000	U	0.0880	U	12.0000	U	5.0000	U	0.0880	U
Dibenz(a,h)anthracene	0.005	**	**	11.0000	U	0.0650	U	11.0000	U	0.0650	U	11.0000	U	7.5000	U	0.0650	U	10.0000	UJ	0.0650	U	10.0000	U	0.0650	U	12.0000	U	7.5000	U	0.0650	U
Dibenzofuran	30	67	67	11.0000	U	1.0000	U	11.0000	U	1.0000	U	1.0000	J	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
Diethylphthalate	6100	380	380	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
Dimethylphthalate	76000	1400	1400	11.0000	U	0.5700	U	11.0000	U	0.5700	U	11.0000	U	10.0000	U	0.5700	U	10.0000	U	0.5700	U	10.0000	U	0.5700	U	12.0000	U	10.0000	U	0.5700	U
Di-n-butylphthalate	NA	NA	NA	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	0.4500	J	1.0000	U
Di-n-octylphthalate	150	NA	NA	11.0000	U	1.2000	U	11.0000	U	1.2000	U	11.0000	U	10.0000	U	1.2000	U	10.0000	U	1.2000	U	10.0000	U	1.2000	U	12.0000	U	10.0000	UJ	1.2000	U
Diphenylamine	190	NA	NA	na		na		na		na		na		7.0000	U	na		na		na		na		na		na		7.0000	U	na	
Fluoranthene	300	0.3	0.3	11.0000	U	0.0610	U	11.0000	U	0.0610	U	11.0000	U	10.0000	U	0.7800		10.0000	U	0.0610	U	10.0000	U	0.0610	U	12.0000	U	10.0000	U	0.0610	U
Fluorene	300	30	30	11.0000	U	0.0260	U	11.0000	U	0.0260	U	1.0000	J	10.0000	U	0.9200		10.0000	U	0.0260	U	10.0000	U	0.0260	U	12.0000	U	10.0000	U	0.3100	
Hexachlorobenzene	1	0.0003	0.0003	11.0000	U	0.6100	U	11.0000	U	0.6100	U	11.0000	U	1.0000	U	0.6100	U	10.0000	U	0.6100	U	10.0000	U	0.6100	U	12.0000	U	1.0000	U	0.6100	U
Hexachlorobutadiene	0.5	49.7	49.7	11.0000	U	0.5000	U	11.0000	U	0.5000	U	11.0000	U	10.0000	U	0.5000	U	10.0000	UJ	0.5000	U	10.0000	U	0.5000	U	12.0000	U	10.0000	U	0.5000	U
Hexachlorocyclopentadiene	50	3	3	11.0000	U	1.1000	U	11.0000	UJ	1.1000	U	11.0000	UJ	10.0000	U	1.1000	U	10.0000	UJ	1.1000	U	10.0000	UJ	1.1000	U	12.0000	UJ	10.0000	U	1.1000	U
Hexachloroethane	2.7	3.6	3.6	11.0000	U	0.7000	U	11.0000	U	0.7000	U	11.0000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U	10.0000	U	0.7000	U	12.0000	U	10.0000	U	0.7000	U
Indeno(1,2,3-cd)pyrene	0.05	**	**	11.0000	U	0.0800	U	11.0000	U	0.0800	U	11.0000	U	7.5000	U	0.0800	U	10.0000	U	0.0800	U	10.0000	U	0.0800	U	12.0000	U	7.5000	U	0.0800	U
Isophorone	40	650	650	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
Naphthalene	15	26	26	2.0000	J	0.0280	U	11.0000	U	0.0280	U	**76.0000**		0.9100	J	**90.0000**	D	2.0000	J	1.5000		10.0000	U	0.0280	U	**23.0000**		14.0000		12.0000	
Nitrobenzene	3.8	90	90	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	9.5000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	9.5000	U	1.0000	U
N-Nitroso-di-n-propylamine	0.005	0.5	0.5	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	4.0000	U	1.0000	U	10.0000	U	1.0000	U	10.0000	U	1.0000	U	12.0000	U	4.0000	U	1.0000	U
N-Nitrosodiphenylamine	7.8	6.5	6.5	11.0000	U	1.0000	U	11.0000	U	1.0000	U	11.0000	U	na		1.0000	U	10.0000	U	1.0000	U	10.0000	UJ	1.0000	U	12.0000	U	na		1.0000	U
Pentachlorophenol	1	8.2	8.2	26.0000	U	2.0000	U	27.0000	U	2.0000	U	28.0000	U	1.0000	U	**2.2000**	J	26.0000	U	2.0000	U	25.0000	U	2.0000	U	30.0000	U	1.0000	U	2.0000	U
Phenanthrene	230	**	**	11.0000	U	0.0250	U	11.0000	U	0.0250	U	3.0000	J	10.0000	U	3.8000		10.0000	U	0.0250	U	10.0000	U	0.0250	U	12.0000	U	10.0000	U	0.0250	U
Phenol	10	6.5	6.5	11.0000	U	1.0000	U	**24.0000**		1.0000	U	7.0000	J	10.0000	U	1.0000	U	**10.0000**	J	1.0000	U	14.0000	U	1.0000	U	12.0000	U	10.0000	U	1.0000	U
Pyrene	230	0.3	0.3	11.0000	U	0.0420	U	11.0000	U	0.0420	U	11.0000	U	10.0000	U	0.6600		10.0000	U	0.0560		10.0000	U	0.0420	U	12.0000	U	10.0000	U	0.0420	U

Notes:
all results in ppb
GCTL exceedances in BOLD
NA = not applicable
** = FSWCTL & MSWCTL for total PAHs = 0.031 ug/L
1 = more conservative 4-methylphenol criteria used over 3-methylphenol
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 13
Summary of Groundwater SVOAs, OU2, 2003 RI Addendum, NASP

WELL ID -->				30GS46			30GS51			30GS103		30GS105		30GS111			30GS123	
	Florida CTLs (ppb)			1993	1995	2003	1993	1995	2003	1993	2003	1993	2003	1993	1995	2003	1993	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,2,4-Trichlorobenzene	70	23	23	2.0000 J	5.6000 J	2.0000 J	1.0000 J	10.0000 U	0.5100 U	10.0000 U	0.5100 U	11.0000 U	0.5100 U	10.0000 U	10.0000 U	0.5100 U	10.0000 U	0.5100 U
1,2-Dichlorobenzene	600	99	99	10.0000 U	1.6000 J	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	3.0000 J	10.0000 U	1.0000 U	10.0000 U	1.0000 U
1,3-Dichlorobenzene	230	85	85	10.0000 U	4.3000 J	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	6.0000 J	1.5000 J	5.4000 J	10.0000 U	1.0000 U
1,4-Dichlorobenzene	75	3.3	3.3	2.0000 J	6.3000 J	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	41.0000	2.3000 J	7.2000 J	10.0000 U	1.0000 U
1-Methyl naphthalene	15	95	95	na	na	0.4000	na	na	0.0720	na	0.0280 U	na	0.0280 U	na	na	0.0430 J	na	0.0280 U
2,2'-oxybis(1-Chloropropane)/bis(2-chlor	NA	NA	NA	na	na	0.5800 U	na	na	0.5800 U	na	0.5800 U	na	0.5800 U	na	na	0.5800 U	na	0.5800 U
2,4,5-Trichlorophenol	1	23	23	26.0000 UJ	4.0000 U	1.1000 U	25.0000 U	4.0000 U	1.1000 U	24.0000 U	1.1000 U	28.0000 U	1.1000 U	24.0000 U	4.0000 U	1.1000 U	24.0000 U	1.1000 U
2,4,6-Trichlorophenol	3.5	6.5	6.5	10.0000 U	10.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	11.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U
2,4-Dichlorophenol	0.3	13	13	10.0000 U	4.0000 U	0.7600 U	10.0000 U	4.0000 U	0.7600 U	10.0000 U	0.7600 U	11.0000 U	0.7600 U	10.0000 U	4.0000 U	0.7600 U	10.0000 U	0.7600 U
2,4-Dimethylphenol	150	160	160	10.0000 U	10.0000 U	1.1000 U	1.0000 J	10.0000 U	1.1000 U	10.0000 U	1.1000 U	11.0000 U	1.1000 U	10.0000 U	10.0000 U	2.5000 J	10.0000 U	1.1000 U
2,4-Dinitrophenol	15	3	3	26.0000 U	25.0000 UJ	10.0000 U	25.0000 UJ	25.0000 UJ	10.0000 U	24.0000 UJ	10.0000 U	28.0000 U	10.0000 U	24.0000 UJ	25.0000 UJ	10.0000 U	24.0000 UJ	10.0000 U
2,4-Dinitrotoluene	0.06	9.1	9.1	10.0000 U	10.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	11.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U
2,6-Dinitrotoluene	0.06	0.8	0.8	10.0000 U	10.0000 U	0.8700 U	10.0000 U	10.0000 U	0.8700 U	10.0000 U	0.8700 U	11.0000 U	0.8700 U	10.0000 U	10.0000 U	0.8700 U	10.0000 U	0.8700 U
2-Chloronaphthalene	610	1700	1700	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
2-Chlorophenol	38	130	130	10.0000 U	10.0000 U	0.7900 U	10.0000 U	10.0000 U	0.7900 U	10.0000 U	0.7900 U	11.0000 U	0.7900 U	2.0000 J	10.0000 U	1.4000 J	10.0000 U	0.7900 U
2-Methyl-4,6-Dinitrophenol	NA	NA	NA	26.0000 U	25.0000 U	10.0000 U	25.0000 U	25.0000 U	10.0000 U	24.0000 U	10.0000 U	28.0000 U	10.0000 U	24.0000 U	25.0000 U	10.0000 U	24.0000 U	10.0000 U
2-Methylnaphthalene	15	30	30	2.0000 J	6.7000 J	0.5100	1.0000 J	1.1000 J	0.0220 U	10.0000 U	0.0220 U	11.0000 U	0.0220 U	10.0000 U	10.0000 U	0.0250 J	10.0000 U	0.0220 U
2-Methylphenol (o Cresol)	38	250	250	10.0000 U	10.0000 U	0.5900 U	10.0000 U	10.0000 U	0.5900 U	10.0000 U	0.5900 U	11.0000 U	0.5900 U	10.0000 U	10.0000 U	0.5900 U	10.0000 U	0.5900 U
2-Nitroaniline	23	NA	NA	26.0000 U	7.5000 U	0.7200 U	25.0000 U	0.1300 J	0.7200 U	24.0000 U	0.7200 U	28.0000 U	0.7200 U	24.0000 U	7.5000 U	0.7200 U	24.0000 U	0.7200 U
2-Nitrophenol	NA	NA	NA	10.0000 U	10.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U	11.0000 U	1.1000 U	10.0000 U	10.0000 U	1.1000 U	10.0000 U	1.1000 U
3,3'-Dichlorobenzidine	0.08	0.03	0.03	10.0000 U	14.0000 U	1.0000 U	10.0000 UJ	14.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	14.0000 U	1.0000 U	10.0000 U	1.0000 U
3-Methylphenol/4-Methylphenol 1	3.8	70	70	na	**9.2000** J	1.7000 J	na	2.8000 J	1.0000 U	na	1.0000 U	na	1.0000 U	na	10.0000 U	1.0000 U	na	1.0000 U
3-Nitroaniline	1.8	NA	NA	26.0000 U	25.0000 U	0.6400 U	25.0000 UJ	25.0000 U	0.6400 U	24.0000 U	0.6400 U	28.0000 U	0.6400 U	24.0000 U	25.0000 U	0.6400 U	24.0000 U	0.6400 U
4-Bromophenyl-phenylether	NA	NA	NA	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
4-Chloro-3-methylphenol	68	100	100	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
4-Chloroaniline	30	2.5	2.5	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
4-Chlorophenylphenyl ether	NA	NA	NA	10.0000 U	10.0000 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	11.0000 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U
4-Methylphenol (p-Cresol)	3.8	70	70	**21.0000**	na	na	**15.0000**	na	na	10.0000 U	na	11.0000 U	na	10.0000 U	na	na	10.0000 U	na
4-Nitroaniline	1.8	1200	1200	26.0000 U	25.0000 U	0.8600 U	25.0000 UJ	25.0000 U	0.8600 U	24.0000 UJ	0.8600 U	28.0000 U	0.8600 U	24.0000 UJ	25.0000 U	0.8600 U	24.0000 UJ	0.8600 U
4-Nitrophenol	61	55	55	26.0000 U	15.0000 UJ	5.0000 U	25.0000 UJ	15.0000 UJ	5.0000 U	24.0000 U	5.0000 U	28.0000 UJ	5.0000 U	24.0000 U	15.0000 UJ	5.0000 U	24.0000 U	5.0000 U
Acenaphthene	20	3	3	10.0000 U	10.0000 U	0.0250 U	10.0000 U	10.0000 U	0.0250 U	10.0000 U	0.0500	11.0000 U	0.0250 U	10.0000 U	10.0000 U	0.0320	10.0000 U	0.0250 U
Acenaphthylene	230	**	**	10.0000 U	10.0000 U	0.0240 U	10.0000 U	10.0000 U	0.0240 U	10.0000 U	0.0240 U	11.0000 U	0.0240 U	10.0000 U	10.0000 U	0.0240 U	10.0000 U	0.0240 U
Anthracene	2300	0.3	0.3	10.0000 U	10.0000 U	0.0310 U	10.0000 U	10.0000 U	0.0310 U	10.0000 U	0.0310 U	11.0000 U	0.0310 U	10.0000 U	10.0000 U	0.0310 U	10.0000 U	0.0310 U
Benzo(a)anthracene	0.05	**	**	10.0000 U	4.0000 U	0.0700 U	10.0000 U	4.0000 U	0.0700 U	10.0000 U	0.0700 U	11.0000 U	0.0700 U	10.0000 U	4.0000 U	0.0700 U	10.0000 U	0.0700 U
Benzo(a)pyrene	0.2	**	**	10.0000 U	0.5900 U	0.0600 U	10.0000 U	0.5900 U	0.0600 U	10.0000 U	0.0600 U	11.0000 U	0.0600 U	10.0000 U	0.5900 U	0.0600 U	10.0000 U	0.0600 U
Benzo(b)fluoranthene	0.05	**	**	10.0000 U	4.0000 U	0.0740 U	10.0000 U	4.0000 U	0.0740 U	10.0000 U	0.0740 U	11.0000 U	0.0740 U	10.0000 U	4.0000 U	0.0740 U	10.0000 U	0.0740 U
Benzo(g,h,i)perylene	230	**	**	10.0000 U	10.0000 UJ	0.0960 U	10.0000 U	10.0000 UJ	0.0960 U	10.0000 U	0.0960 U	11.0000 U	0.0960 U	10.0000 U	10.0000 UJ	0.0960 U	10.0000 U	0.0960 U
Benzo(k)fluoranthene	0.5	**	**	10.0000 U	4.0000 U	0.0580 U	10.0000 U	4.0000 U	0.0580 U	10.0000 U	0.0580 U	11.0000 U	0.0580 U	10.0000 U	4.0000 U	0.0580 U	10.0000 U	0.0580 U
bis(2-Chloroethoxy)methane	NA	NA	NA	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
bis(2-Chloroethyl)ether	0.03	0.6	0.6	10.0000 U	1.5000 U	1.0000 U	10.0000 U	1.5000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	1.5000 U	1.0000 U	10.0000 U	1.0000 U
Bis(2-Chloroisopropyl)Ether	0.5	25	25	10.0000 U	7.5000 U	na	10.0000 U	7.5000 U	na	10.0000 U	na	11.0000 UJ	na	10.0000 U	7.5000 U	na	10.0000 U	na
bis(2-Ethylhexyl)phthalate (BEHP)	6	2.4	2.4	10.0000 U	**9.0000** J	2.4000 U	10.0000 U	**13.0000** J	2.4000 U	10.0000 U	2.4000 U	11.0000 U	2.4000 U	10.0000 U	10.0000 UJ	2.4000 U	10.0000 U	2.4000 U
Butylbenzylphthalate	150	26	26	10.0000 U	1.2000 J	0.7400 U	10.0000 U	1.2000 J	0.7400 U	10.0000 U	0.7400 U	11.0000 U	0.7400 U	10.0000 U	10.0000 UJ	0.7400 U	10.0000 U	0.7400 U
Carbazole	1.9	47	47	10.0000 U	7.5000 U	0.5400 U	10.0000 UJ	7.5000 U	0.5400 U	10.0000 U	0.5400 U	11.0000 U	0.5400 U	10.0000 U	7.5000 U	0.5400 U	10.0000 U	0.5400 U
Chrysene	5.2	**	**	10.0000 U	5.0000 U	0.0880 U	10.0000 U	5.0000 U	0.0880 U	10.0000 U	0.0880 U	11.0000 U	0.0880 U	10.0000 U	5.0000 U	0.0880 U	10.0000 U	0.0880 U
Dibenz(a,h)anthracene	0.005	**	**	10.0000 U	7.5000 U	0.0650 U	10.0000 U	7.5000 U	0.0650 U	10.0000 U	0.0650 U	11.0000 U	0.0650 U	10.0000 U	7.5000 U	0.0650 U	10.0000 U	0.0650 U
Dibenzofuran	30	67	67	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
Diethylphthalate	6100	380	380	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
Dimethylphthalate	76000	1400	1400	10.0000 U	10.0000 U	0.5700 U	10.0000 U	10.0000 U	0.5700 U	10.0000 U	0.5700 U	11.0000 U	0.5700 U	10.0000 U	10.0000 U	0.5700 U	10.0000 U	0.5700 U
Di-n-butylphthalate	NA	NA	NA	10.0000 U	0.4800 J	1.0000 U	10.0000 U	10.0000 UJ	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 UJ	1.0000 U	10.0000 U	1.0000 U
Di-n-octylphthalate	150	NA	NA	10.0000 U	10.0000 UJ	1.2000 U	10.0000 U	10.0000 UJ	1.2000 U	10.0000 U	1.2000 U	11.0000 U	1.2000 U	10.0000 U	10.0000 UJ	1.2000 U	10.0000 U	1.2000 U
Diphenylamine	190	NA	NA	na	7.0000 U	na	na	7.0000 U	na	na	na	na	na	na	7.0000 U	na	na	na
Fluoranthene	300	0.3	0.3	10.0000 U	10.0000 U	0.0610 U	10.0000 U	10.0000 U	0.0610 U	10.0000 U	0.0610 U	11.0000 U	0.0610 U	10.0000 U	10.0000 U	0.0610 U	10.0000 U	0.0610 U
Fluorene	300	30	30	10.0000 U	10.0000 U	0.0260 U	10.0000 U	10.0000 U	0.0260 U	10.0000 U	0.0260 U	11.0000 U	0.0260 U	10.0000 U	10.0000 U	0.0260 U	10.0000 U	0.0260 U
Hexachlorobenzene	1	0.0003	0.0003	10.0000 U	1.0000 U	0.6100 U	10.0000 U	1.0000 U	0.6100 U	10.0000 U	0.6100 U	11.0000 U	0.6100 U	10.0000 U	1.0000 U	0.6100 U	10.0000 U	0.6100 U
Hexachlorobutadiene	0.5	49.7	49.7	10.0000 U	10.0000 U	0.5000 U	10.0000 U	10.0000 U	0.5000 U	10.0000 U	0.5000 U	11.0000 U	0.5000 U	10.0000 U	10.0000 U	0.5000 U	10.0000 U	0.5000 U
Hexachlorocyclopentadiene	50	3	3	10.0000 U	10.0000 U	1.1000 U	10.0000 UJ	10.0000 U	1.1000 U	10.0000 UJ	1.1000 U	11.0000 U	1.1000 U	10.0000 UJ	10.0000 U	1.1000 U	10.0000 UJ	1.1000 U
Hexachloroethane	2.7	3.6	3.6	10.0000 U	10.0000 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U	11.0000 U	0.7000 U	10.0000 U	10.0000 U	0.7000 U	10.0000 U	0.7000 U
Indeno(1,2,3-cd)pyrene	0.05	**	**	10.0000 U	7.5000 U	0.0800 U	10.0000 U	7.5000 U	0.0800 U	10.0000 U	0.0800 U	11.0000 U	0.0800 U	10.0000 U	7.5000 U	0.0800 U	10.0000 U	0.0800 U
Isophorone	40	650	650	10.0000 U	10.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	10.0000 U	1.0000 U	10.0000 U	1.0000 U
Naphthalene	15	26	26	7.0000 J	5.6000 J	1.2000	5.0000 J	**15.0000**	0.0920	10.0000 U	0.0280 U	11.0000 U	0.0280 U	10.0000 U	6.8000 U	**17.0000**	10.0000 U	0.0280 U
Nitrobenzene	3.8	90	90	10.0000 U	9.5000 U	1.0000 U	10.0000 U	9.5000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	9.5000 U	1.0000 U	10.0000 U	1.0000 U
N-Nitroso-di-n-propylamine	0.005	0.5	0.5	10.0000 U	4.0000 U	1.0000 U	10.0000 U	4.0000 U	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	4.0000 U	1.0000 U	10.0000 U	1.0000 U
N-Nitrosodiphenylamine	7.8	6.5	6.5	10.0000 U	na	1.0000 U	10.0000 UJ	na	1.0000 U	10.0000 U	1.0000 U	11.0000 U	1.0000 U	10.0000 U	na	1.0000 U	10.0000 U	1.0000 U
Pentachlorophenol	1	8.2	8.2	26.0000 UJ	1.0000 U	2.0000 U	25.0000 U	1.0000 U	2.0000 U	24.0000 U	2.0000 U	28.0000 U	2.0000 U	24.0000 U	1.0000 U	2.0000 U	24.0000 U	2.0000 U
Phenanthrene	230	**	**	10.0000 U	10.0000 U	0.0250 U	10.0000 U	10.0000 U	0.0250 U	10.0000 U	0.0250 U	11.0000 U	0.0250 U	10.0000 U	10.0000 U	0.0250 U	10.0000 U	0.0250 U
Phenol	10	6.5	6.5	17.0000 U	10.0000 U	1.0000 U	13.0000 U	10.0000 U	1.0000 U	7.0000 J	1.0000 U	6.0000 J	1.0000 U	4.0000 J	10.0000 U	1.0000 U	5.0000 J	1.0000 U
Pyrene	230	0.3	0.3	10.0000 U	10.0000 U	0.0420 U	10.0000 U	10.0000 U	0.0580	10.0000 U	0.0420 U	11.0000 U	0.0430 U	10.0000 U	10.0000 U	0.0420 U	10.0000 U	0.0420 U

Notes:
all results in ppb
GCTL exceedances in BOLD
NA = not applicable
** = FSWCTL & MSWCTL for total PAHs = 0.031 ug/L
1 = more conservative 4-methylphenol criteria used over 3-methylphenol
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 14 Historical Trends in SVOA Concentrations in Groundwater				
Well	**1993 Exceedances**	**1995 Exceedances**	**2003 Exceedances**	**Comments**
011GS47	2	Not analyzed	2	Different compounds
27GS18	2	1	2	stable
27GS19	3	4	2	3 and 4 methylnapthalene and naphthalene increase
30GS06	4	0	6	3 and 4 methylphenol increases, PCP decreases
30GS22	1	1	3	All compounds increase
30GS111	0	0	1	Naphthalene increases
30GSI111	2	2	2	1,4-dichlorobenzene and 2,4-dichlorophenol decrease

Table 15
Summary of Soil VOAs, OU2, 2003 RI Addendum, NASP

PARAMETER	LOCATION	011S000606				030S001220				030S001706				030S001718				030S005302				030S005304				030S005310				030S012006		030S012005	
	Florida SCTLs (ppb)	1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results		1993 Results		2003 Results	
1,1,1-Trichloroethane	1900	10.0000	UJ	0.5900	U	12.0000	U	130.0000	U	11.0000	U	0.6300	U	11.0000	U	0.5000	U	11.0000	U	0.6500	U	10.0000	U	0.6800	U	10.0000	U	0.6700	U	11.0000	U	0.8300	U
1,1,2,2-Tetrachloroethane	10	10.0000	UJ	0.6200	U	12.0000	UR	93.0000	U	11.0000	U	0.6700	U	11.0000	U	0.5300	U	11.0000	U	0.6800	U	10.0000	U	0.7200	U	10.0000	U	0.6500	U	11.0000	U	0.8700	U
1,1,2-Trichloroethane	30	10.0000	UJ	1.1000	U	12.0000	U	48.0000	U	11.0000	U	1.1000	U	11.0000	U	0.9100	U	11.0000	U	1.2000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.5000	U
1,1-Dichloroethane	400	10.0000	UJ	0.8800	U	12.0000	U	41.0000	U	11.0000	U	0.9400	U	11.0000	U	0.7500	U	11.0000	U	0.9600	U	10.0000	U	1.0000	U	10.0000	UJ	0.9200	U	11.0000	U	1.2000	U
1,1-Dichloroethene	60	10.0000	UJ	0.6400	U	12.0000	U	96.0000	U	11.0000	U	0.6800	U	11.0000	U	0.5400	U	11.0000	U	0.7000	U	10.0000	U	0.7300	U	10.0000	U	0.6600	U	11.0000	U	0.8900	U
1,2-Dichloroethane	10	2.0000	J	0.7200	U	12.0000	U	120.0000	U	11.0000	U	0.7700	U	11.0000	U	0.6200	U	11.0000	U	0.7900	U	10.0000	U	0.8300	U	10.0000	U	0.7600	U	11.0000	U	1.0000	U
1,2-Dichloroethene (total)	1100	10.0000	UJ	na		12.0000	U	na		11.0000	U	na		11.0000	U	na		11.0000	U	na		10.0000	U	na		10.0000	U	na		11.0000	U	na	
1,2-Dichloropropane	30	10.0000	UJ	0.7100	U	12.0000	U	110.0000	U	11.0000	U	0.7600	U	11.0000	U	0.6100	U	11.0000	U	0.7800	U	10.0000	U	0.8200	U	10.0000	U	0.7400	U	11.0000	U	0.9900	U
2-Butanone (MEK)	17000	10.0000	UJ	3.2000	U	12.0000	U	300.0000	U	1.0000	J	1.6000	U	11.0000	U	1.1000	U	11.0000	U	0.3400	U	10.0000	U	0.3500	U	10.0000	U	0.3200	U	11.0000	U	2.4000	U
2-Hexanone	1400	10.0000	UJ	0.4700	U	12.0000	UR	590.0000	U	11.0000	U	0.5000	U	11.0000	U	0.4000	U	11.0000	U	0.5200	U	10.0000	U	0.5400	U	10.0000	U	0.4900	U	11.0000	UJ	0.6600	U
4-Methyl-2-Pentanone (MII	2600	10.0000	UJ	0.4200	U	12.0000	UR	160.0000	U	11.0000	U	0.4400	U	11.0000	U	0.3600	U	11.0000	U	0.4600	U	10.0000	U	0.4800	U	10.0000	U	0.4400	U	11.0000	UJ	0.5800	U
Acetone	2800	10.0000	UJ	5.5000	U	39.0000	UD	600.0000	U	140.0000	J	5.8000	U	48.0000	U	4.7000	U	400.0000	D	6.0000	U	41.0000	U	6.3000	U	41.0000	U	5.7000	U	61.0000	UJ	7.6000	U
Benzene	7	10.0000	UJ	0.4200	U	12.0000	U	54.0000	U	11.0000	U	0.4400	U	11.0000	U	0.3600	U	11.0000	U	0.4600	U	10.0000	U	0.4800	U	10.0000	U	0.4400	U	3.0000	J	0.5800	U
Bromodichloromethane	4	10.0000	UJ	0.3400	U	12.0000	U	100.0000	U	11.0000	U	0.3600	U	11.0000	U	0.2900	U	11.0000	U	0.3700	U	10.0000	U	0.3900	U	10.0000	U	0.3600	U	11.0000	U	0.4700	U
Bromoform	30	10.0000	UJ	0.7400	U	12.0000	U	53.0000	U	11.0000	U	0.8000	U	11.0000	U	0.6400	U	11.0000	U	0.8200	U	10.0000	U	0.8500	U	10.0000	U	0.7800	U	11.0000	U	1.0000	U
Bromomethane	50	10.0000	UJ	0.6200	U	12.0000	UR	120.0000	U	11.0000	U	0.6700	U	11.0000	U	0.5300	U	11.0000	U	0.6800	U	10.0000	U	0.7200	U	10.0000	UJ	0.6500	U	11.0000	U	0.8700	U
Carbon disulfide	5600	10.0000	UJ	0.4400	U	12.0000	U	130.0000	U	11.0000	U	0.4700	U	11.0000	U	0.3700	U	11.0000	U	0.4800	U	10.0000	U	0.5000	U	10.0000	U	0.4600	U	11.0000	U	0.6100	U
Carbon tetrachloride	40	10.0000	UJ	0.3800	U	12.0000	U	140.0000	U	11.0000	U	0.4100	U	11.0000	U	0.3300	U	11.0000	U	0.4200	U	10.0000	U	0.4400	U	10.0000	U	0.4000	U	11.0000	U	0.5400	U
Chlorobenzene	1300	10.0000	UJ	0.8100	U	12.0000	UR	73.0000	U	11.0000	U	0.8700	U	11.0000	U	0.6900	U	11.0000	U	0.8900	U	10.0000	U	0.9300	U	10.0000	U	0.8500	U	11.0000	U	1.1000	U
Chloroethane	NA	10.0000	UJ	0.6200	U	12.0000	U	120.0000	U	11.0000	U	0.6700	U	11.0000	U	0.5300	U	11.0000	U	0.6800	U	10.0000	U	0.7200	U	10.0000	UJ	0.6500	U	11.0000	U	0.8700	U
Chloroform	30	10.0000	UJ	0.4800	U	12.0000	U	46.0000	U	11.0000	U	0.5200	U	11.0000	U	0.4100	U	11.0000	U	0.5300	U	10.0000	U	0.5500	U	10.0000	U	0.5000	U	11.0000	U	0.6700	U
Chloromethane	10	10.0000	UJ	1.5000	U	12.0000	U	120.0000	U	11.0000	UJ	1.6000	U	11.0000	UJ	1.3000	U	11.0000	UJ	1.7000	U	10.0000	UJ	1.8000	U	10.0000	U	1.6000	U	11.0000	U	2.1000	U
cis-1,2-Dichloroethene	400	na		0.4300	U	na		68.0000	U	na		0.4600	U	na		0.3600	U	na		0.4700	U	na		0.4900	U	na		0.4500	U	na		0.6000	U
cis-1,3-Dichloropropene	1	10.0000	UJ	0.7700	U	12.0000	U	120.0000	U	11.0000	U	0.8200	U	11.0000	U	0.6600	U	11.0000	U	0.8400	U	10.0000	U	0.8800	U	10.0000	U	0.8000	U	11.0000	U	1.1000	U
Dibromochloromethane	3	10.0000	UJ	0.4300	U	12.0000	U	77.0000	U	11.0000	U	0.4600	U	11.0000	U	0.3600	U	11.0000	U	0.4700	U	10.0000	U	0.4900	U	10.0000	U	0.4500	U	11.0000	U	0.6000	U
Ethylbenzene	600	10.0000	UJ	2.9000	J	12.0000	UR	59.0000	U	11.0000	U	0.7500	U	11.0000	U	0.2800	U	11.0000	U	1.4000	U	10.0000	U	0.8600	U	10.0000	U	0.6200	U	2.0000	J	0.4600	U
Methylene chloride	20	24.0000	UJ	1.3000	J	12.0000	U	60.0000	U	11.0000		1.4000	J	**31.0000**		0.9300	J	**31.0000**		1.2000	J	**25.0000**		1.2000	J	**22.0000**		1.3000	J	19.0000	UJ	1.6000	U
Styrene	3600	10.0000	UJ	0.5800	U	12.0000	UR	150.0000	U	11.0000	U	0.6200	U	11.0000	U	0.5000	U	11.0000	U	0.6400	U	10.0000	U	0.6700	U	10.0000	U	0.6100	U	11.0000	U	0.8100	U
Tetrachloroethene	30	**270.0000**	DJ	**30.0000**		12.0000	UR	100.0000	U	11.0000	U	1.3000	J	11.0000	U	0.9200	U	11.0000	U	1.2000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.5000	U
Toluene	500	3.0000	DJ	0.7100	U	12.0000	UR	74.0000	U	11.0000	U	0.7600	U	11.0000	U	0.6100	U	11.0000	U	0.7800	U	10.0000	U	0.8200	U	10.0000	U	0.7400	U	12.0000		0.9900	U
trans-1,2-Dichloroethene	700	na		0.8800	U	na		61.0000	U	na		0.9400	U	na		0.7500	U	na		0.9600	U	na		1.0000	U	na		0.9200	U	na		1.2000	U
trans-1,3-Dichloropropene	1	10.0000	UJ	1.1000	U	12.0000	U	69.0000	U	11.0000	U	1.2000	U	11.0000	U	0.9400	U	11.0000	U	1.2000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.5000	U
Trichloroethene	30	10.0000	UJ	0.8400	U	12.0000	U	120.0000	U	11.0000	U	0.9000	U	11.0000	U	0.7200	U	11.0000	U	0.9200	U	10.0000	U	0.9700	U	10.0000	U	0.8800	U	11.0000	U	1.2000	U
Vinyl chloride	7	10.0000	UJ	1.6000	U	12.0000	U	120.0000	U	11.0000	U	1.8000	U	11.0000	U	1.4000	U	11.0000	U	1.8000	U	10.0000	U	1.9000	U	10.0000	U	1.7000	U	11.0000	U	2.3000	U
Xylene (Total)	200	10.0000	UJ	15.0000		12.0000	UR	160.0000	U	11.0000	U	1.1000	U	11.0000	U	0.9100	U	11.0000	U	8.0000	J	10.0000	U	4.9000	J	10.0000	U	3.2000	U	11.0000	U	1.5000	U

Notes: All results in ppb
NA = not applicable
na = not analyzed
U = not detected
J = present below method reporting limit but above instrument detection limit
R = rejected due to variance from quality control criteria
D = detection from a diluted sample
Bolding indicates an exceedance of the SCTL.

Table 15
Summary of Soil VOAs, OU2, 2003 RI Addendum, NASP

PARAMETER	LOCATION Florida SCTLs (ppb)	030S012403 1993 Results		030S012403 2003 Results		030S012503 1993 Results		030S012503 2003 Results		030S012505 1993 Results		030S012505 2003 Results		030S013706 1993 Results		030S013706 2003 Results		030S013806 1993 Results		030S013806 2003 Results		030S013820 2003 Results		030S014206 1993 Results		030S014206 2003 Results		030S014806 1993 Results		030S014806 2003 Results		030S015016 8/9/1993 Results		030S015016 9/29/1993 Results		030S015016 2003 Results	
1,1,1-Trichloroethane	1900	11.0000	U	0.7000	U	10.0000	U	0.7500	U	10.0000	U	0.6400	U	10.0000	U	0.6200	U	11.0000	U	0.6000	U	240.0000	U	8.0000	J	0.7400	U	12.0000	U	0.6000	U	11.0000	U	10.0000	U	0.6200	U
1,1,2,2-Tetrachloroethane	10	11.0000	U	0.7400	U	10.0000	U	0.7900	U	10.0000	U	0.6800	U	10.0000	U	0.6500	U	11.0000	U	0.6400	U	170.0000	U	10.0000	U	0.7800	U	12.0000	U	0.6400	U	11.0000	U	10.0000	U	0.6600	U
1,1,2-Trichloroethane	30	11.0000	U	1.2000	U	10.0000	U	1.4000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.1000	U	88.0000	U	10.0000	U	1.3000	U	12.0000	U	1.1000	U	11.0000	U	10.0000	U	1.1000	U
1,1-Dichloroethane	400	11.0000	U	1.0000	U	10.0000	U	1.1000	U	10.0000	U	0.9500	U	10.0000	U	0.9200	U	11.0000	U	0.9000	U	75.0000	U	10.0000	U	1.1000	U	12.0000	U	0.9000	U	11.0000	U	10.0000	U	0.9200	U
1,1-Dichloroethene	60	11.0000	U	0.7500	U	10.0000	U	0.8100	U	10.0000	U	0.6900	U	10.0000	U	0.6600	U	11.0000	U	0.6500	U	180.0000	U	10.0000	U	0.7900	U	12.0000	U	0.6500	U	11.0000	U	10.0000	U	0.6700	U
1,2-Dichloroethane	10	**10.0000**	J	0.8500	U	8.0000	J	0.9200	U	**11.0000**		0.7800	U	**11.0000**		0.7600	U	**13.0000**		0.7400	U	210.0000	U	8.0000	J	0.9000	U	**20.0000**		0.7400	U	11.0000	U	**10.0000**	J	0.7600	U
1,2-Dichloroethene (total)	1100	11.0000	U	na		10.0000	U	na		10.0000	U	na		10.0000	U	na		11.0000	U	na		na		10.0000	U	na		12.0000	U	na		11.0000	U	10.0000	U	na	
1,2-Dichloropropane	30	11.0000	U	0.8400	U	10.0000	U	0.9000	U	10.0000	U	0.7700	U	10.0000	U	0.7400	U	11.0000	U	0.7300	U	200.0000	U	10.0000	U	0.8900	U	12.0000	U	0.7300	U	11.0000	U	10.0000	U	0.7500	U
2-Butanone (MEK)	17000	11.0000	U	0.3600	U	10.0000	U	2.3000	U	10.0000	U	0.3300	U	10.0000	U	0.3200	U	11.0000	U	4.2000	U	360.0000	U	10.0000	U	0.3800	U	12.0000	U	0.3100	U	11.0000	U	10.0000	U	0.3200	U
2-Hexanone	1400	11.0000	U	0.5600	U	10.0000	U	0.6000	U	10.0000	U	0.5100	U	10.0000	U	0.4900	U	11.0000	U	0.4800	U	1100.0000	U	10.0000	U	0.5900	U	12.0000	U	0.4800	U	11.0000	U	10.0000	U	0.5000	U
4-Methyl-2-Pentanone (MII	2600	11.0000	U	0.4900	U	10.0000	U	0.5300	U	10.0000	U	0.4500	U	10.0000	U	0.4400	U	11.0000	U	1.5000	J	300.0000	U	10.0000	U	0.5200	U	12.0000	U	0.4200	U	11.0000	U	10.0000	U	0.4400	U
Acetone	2800	66.0000	U	19.0000	J	10.0000	U	31.0000	J	10.0000	U	6.0000	U	54.0000	U	5.7000	U	94.0000	U	5.6000	U	1100.0000	U	52.0000		6.8000	U	98.0000	U	5.6000	U	99.0000	J	110.0000	U	5.8000	U
Benzene	7	11.0000	U	0.4900	U	10.0000	U	0.5300	U	10.0000	U	0.4500	U	10.0000	U	0.4400	U	11.0000	U	0.4200	U	99.0000	U	10.0000	U	0.5200	U	12.0000	U	0.4200	U	11.0000	U	10.0000	U	0.4400	U
Bromodichloromethane	4	11.0000	U	0.4000	U	10.0000	U	0.4300	U	10.0000	U	0.3700	U	10.0000	U	0.3600	U	11.0000	U	0.3500	U	180.0000	U	10.0000	U	0.4200	U	12.0000	U	0.3500	U	11.0000	U	10.0000	U	0.3600	U
Bromoform	30	11.0000	U	0.8800	U	10.0000	U	0.9500	U	10.0000	U	0.8100	U	10.0000	U	0.7800	U	11.0000	U	0.7600	U	96.0000	U	10.0000	U	0.9300	U	12.0000	U	0.7600	U	11.0000	U	10.0000	U	0.7900	U
Bromomethane	50	11.0000	U	0.7400	U	10.0000	U	0.7900	U	10.0000	U	0.6800	U	10.0000	U	0.6500	U	11.0000	U	0.6400	U	210.0000	U	10.0000	U	0.7800	U	12.0000	U	0.6400	U	11.0000	U	10.0000	U	0.6600	U
Carbon disulfide	5600	11.0000	U	0.5200	U	10.0000	U	0.5600	U	10.0000	U	0.4800	U	10.0000	U	0.4600	U	11.0000	U	0.4500	U	170.0000	U	10.0000	U	0.5400	U	12.0000	U	0.4500	U	11.0000	U	10.0000	U	0.4600	U
Carbon tetrachloride	40	11.0000	U	0.4500	U	10.0000	U	0.4900	U	10.0000	U	0.4200	U	10.0000	U	0.4000	U	11.0000	U	0.3900	U	260.0000	U	10.0000	U	0.4800	U	12.0000	U	0.3900	U	11.0000	U	10.0000	U	0.4000	U
Chlorobenzene	1300	11.0000	U	0.9600	U	10.0000	U	1.0000	U	10.0000	U	0.8800	U	10.0000	U	0.8500	U	11.0000	U	0.8300	U	130.0000	U	10.0000	U	1.0000	U	12.0000	U	0.8300	U	11.0000	U	10.0000	U	0.8600	U
Chloroethane	NA	11.0000	U	0.7400	U	10.0000	U	0.7900	U	10.0000	U	0.6800	U	10.0000	U	0.6500	U	11.0000	U	0.6400	U	210.0000	U	10.0000	U	0.7800	U	12.0000	U	0.6400	U	11.0000	U	10.0000	U	0.6600	U
Chloroform	30	11.0000	U	0.5700	U	10.0000	U	0.6100	U	10.0000	U	0.5200	U	10.0000	U	0.5000	U	11.0000	U	0.4900	U	84.0000	U	10.0000	U	0.6000	U	12.0000	U	0.4900	U	11.0000	U	10.0000	U	0.5100	U
Chloromethane	10	11.0000	U	1.8000	U	10.0000	U	2.0000	U	10.0000	U	1.7000	U	10.0000	U	1.6000	U	11.0000	U	1.6000	U	210.0000	U	10.0000	U	1.9000	U	12.0000	U	1.6000	U	11.0000	UJ	10.0000	U	1.6000	U
cis-1,2-Dichloroethene	400	na		0.5000	U	na		0.5400	U	na		0.4600	U	na		0.4500	U	na		0.4400	U	120.0000	U	na		0.5300	U	na		0.4400	U	na		na		0.4500	U
cis-1,3-Dichloropropene	1	11.0000	U	0.9000	U	10.0000	U	0.9800	U	10.0000	U	0.8300	U	10.0000	U	0.8000	U	11.0000	U	0.7800	U	210.0000	U	10.0000	U	0.9500	U	12.0000	U	0.7800	U	11.0000	U	10.0000	U	0.8100	U
Dibromochloromethane	3	11.0000	U	0.5000	U	10.0000	U	0.5400	U	10.0000	U	0.4600	U	10.0000	U	0.4500	U	11.0000	U	0.4400	U	140.0000	U	10.0000	U	0.5300	U	12.0000	U	0.4400	U	11.0000	U	10.0000	U	0.4500	U
Ethylbenzene	600	11.0000	U	0.3900	U	10.0000	U	0.4200	U	10.0000	U	0.3600	U	10.0000	U	13.0000		11.0000	U	0.3400	U	**19000.0000**		10.0000	U	0.4100	U	12.0000	U	0.4300	U	11.0000	U	10.0000	U	0.8100	U
Methylene chloride	20	11.0000	U	1.3000	U	10.0000	U	1.3000	U	10.0000	U	1.4000	U	10.0000	U	1.0000	J	11.0000	U	1.3000	J	110.0000	U	10.0000	U	1.4000	J	12.0000	U	1.0000	J	23.0000	U	10.0000	U	1.4000	J
Styrene	3600	11.0000	U	0.6800	U	10.0000	U	0.7400	U	10.0000	U	0.6300	U	10.0000	U	0.6100	U	11.0000	U	0.5900	U	280.0000	U	10.0000	U	0.7200	U	12.0000	U	0.5900	U	11.0000	U	10.0000	U	0.6100	U
Tetrachloroethene	30	11.0000	U	1.3000	U	10.0000	U	1.4000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.1000	U	**220.0000**	J	3.0000	J	1.3000	U	12.0000	U	1.1000	U	11.0000	U	10.0000	U	1.1000	U
Toluene	500	11.0000	U	0.8400	U	10.0000	U	0.9000	U	10.0000	U	0.7700	U	3.0000	J	0.7400	U	11.0000	U	0.7300	U	420.0000	J	2.0000	J	0.8900	U	12.0000	U	0.7300	U	11.0000	U	10.0000	U	0.7500	U
trans-1,2-Dichloroethene	700	na		1.0000	U	na		1.1000	U	na		0.9500	U	na		0.9200	U	na		0.9000	U	110.0000	U	na		1.1000	U	12.0000	U	0.9000	U	na		na		0.9200	U
trans-1,3-Dichloropropene	1	11.0000	U	1.3000	U	10.0000	U	1.4000	U	10.0000	U	1.2000	U	10.0000	U	1.1000	U	11.0000	U	1.1000	U	130.0000	U	10.0000	U	1.4000	U	12.0000	U	1.1000	U	11.0000	U	10.0000	U	1.2000	U
Trichloroethene	30	11.0000	U	0.9900	U	10.0000	U	1.1000	U	10.0000	U	0.9200	U	10.0000	U	0.8800	U	11.0000	U	0.8600	U	210.0000	U	10.0000	U	1.0000	U	12.0000	U	0.8600	U	11.0000	U	10.0000	U	0.8900	U
Vinyl chloride	7	11.0000	U	1.9000	U	10.0000	U	2.1000	U	10.0000	U	1.8000	U	10.0000	U	1.7000	U	11.0000	U	1.7000	U	210.0000	U	10.0000	U	2.0000	U	12.0000	U	1.7000	U	11.0000	U	10.0000	U	1.7000	U
Xylene (Total)	200	11.0000	U	1.2000	U	10.0000	U	1.4000	U	10.0000	U	1.2000	U	10.0000	U	80.0000		11.0000	U	1.1000	U	**110000.0000**		10.0000	U	3.2000	U	12.0000	U	1.1000	U	11.0000	U	10.0000	U	4.0000	J

Notes: All results in ppb
NA = not applicable
na = not analyzed
U = not detected
J = present below method reporting limit b
R = rejected due to variance from quality c
D = detection from a diluted sample
Bolding indicates an exceedance of the SC

Table 16
VOAs SPLP Results, Operable Unit 2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTL (ppb)	WELL ID --> Florida GCTL (ppb)	011S000606				030S001220				030S001706				030S001718				030S005302				030S005304			
			BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE	
1,1,1-Trichloroethane	1900	200	0.5900	U	0.0650	U	130.0000	U	0.0650	U	0.6300	U	0.0650	U	0.5000	U	0.0650	U	0.6500	U	0.0650	U	0.6800	U	0.0650	U
1,1,2,2-Tetrachloroethane	10	1.50	0.6200	U	0.1700	U	93.0000	U	0.1700	U	0.6700	U	0.1700	U	0.5300	U	0.1700	U	0.6800	U	0.1700	U	0.7200	U	0.1700	U
1,1,2-Trichloroethane	30	5.00	1.1000	U	0.1100	U	48.0000	U	0.1100	U	1.1000	U	0.1100	U	0.9100	U	0.1100	U	1.2000	U	0.1100	U	1.2000	U	0.1100	U
1,1-Dichloroethane	400	76.00	0.8800	U	0.1200	U	41.0000	U	0.1200	U	0.9400	U	0.1200	U	0.7500	U	0.1200	U	0.9600	U	0.1200	U	1.0000	U	0.1200	U
1,1-Dichloroethene	60	7.00	0.6400	U	0.3100	U	96.0000	U	0.3100	U	0.6800	U	0.3100	U	0.5400	U	0.3100	U	0.7000	U	0.3100	U	0.7300	U	0.3100	U
1,2-Dichloroethane	10	3.00	0.7200	U	0.1800	U	120.0000	U	0.1800	U	0.7700	U	0.1800	U	0.6200	U	0.1800	U	0.7900	U	0.1800	U	0.8300	U	0.1800	U
1,2-Dichloropropane	30	5.00	0.7100	U	0.1700	U	110.0000	U	0.1700	U	0.7600	U	0.1700	U	0.6100	U	**24.0000**		0.7800	U	0.1700	U	0.8200	U	0.1700	U
2-Butanone (MEK)	17000	4600.00	3.2000	U	0.4800	U	300.0000	U	0.4800	U	1.6000	U	0.4800	U	1.1000	U	0.4800	U	0.3400	U	0.4800	U	0.3500	U	0.4800	U
2-Hexanone	1400	300.00	0.4700	U	0.2900	U	590.0000	U	0.2900	U	0.5000	U	0.2900	U	0.4000	U	0.2900	U	0.5200	U	0.2900	U	0.5400	U	0.2900	U
4-Methyl-2-Pentanone (MIBK)	2600	610.00	0.4200	U	0.2700	U	160.0000	U	0.2700	U	0.4400	U	0.2700	U	0.3600	U	0.2700	U	0.4600	U	0.2700	U	0.4800	U	0.2700	U
Acetone	2800	760.00	5.5000	U	3.6000	U	600.0000	U	2.3000	U	5.8000	U	26.0000	U	4.7000	U	12.0000	U	6.0000	U	2.9000	U	6.3000	U	5.0000	U
Benzene	7	1.00	0.4200	U	0.0960	U	54.0000	U	0.0960	U	0.4400	U	0.0960	U	0.3600	U	0.0960	U	0.4600	U	0.0960	U	0.4800	U	0.0960	U
Bromodichloromethane	4	0.60	0.3400	U	0.1800	U	100.0000	U	0.1800	U	0.3600	U	0.1800	U	0.2900	U	0.1800	U	0.3700	U	0.1800	U	0.3900	U	0.1800	U
Bromoform	30	4.80	0.7400	U	0.1900	U	53.0000	U	0.1900	U	0.8000	U	0.1900	U	0.6400	U	0.1900	U	0.8200	U	0.1900	U	0.8500	U	0.1900	U
Bromomethane	50	11.00	0.6200	U	0.4900	U	120.0000	U	0.4900	U	0.6700	U	0.4900	U	0.5300	U	0.4900	U	0.6800	U	0.4900	U	0.7200	U	0.4900	U
Carbon disulfide	5600	760.00	0.4400	U	0.7200	U	130.0000	U	0.7200	U	0.4700	U	0.7200	U	0.3700	U	0.7200	U	0.4800	U	0.7200	U	0.5000	U	0.7200	U
Carbon tetrachloride	40	3.00	0.3800	U	0.1500	U	140.0000	U	0.1500	U	0.4100	U	0.1500	U	0.3300	U	0.1500	U	0.4200	U	0.1500	U	0.4400	U	0.1500	U
Chlorobenzene	1300	100.00	0.8100	U	0.1000	U	73.0000	U	0.1000	U	0.8700	U	0.1000	U	0.6900	U	0.1000	U	0.8900	U	0.1000	U	0.9300	U	0.1000	U
Chloroethane	NA	13.00	0.6200	U	0.8600	U	120.0000	U	0.8600	U	0.6700	U	0.8600	U	0.5300	U	0.8600	U	0.6800	U	0.8600	U	0.7200	U	0.8600	U
Chloroform	30	76.00	0.4800	U	0.1200	U	46.0000	U	0.1200	U	0.5200	U	0.1200	U	0.4100	U	0.1200	U	0.5300	U	0.1200	U	0.5500	U	0.1200	U
Chloromethane	10	2.90	1.5000	U	0.4000	U	120.0000	U	0.4000	U	1.6000	U	1.8000		1.3000	U	0.4000	U	1.7000	U	0.4000	U	1.8000	U	0.4400	U
cis-1,2-Dichloroethene	400	70.00	0.4300	U	0.1600	U	68.0000	U	0.1600	U	0.4600	U	0.1600	U	0.3600	U	0.1600	U	0.4700	U	0.1600	U	0.4900	U	0.1600	U
cis-1,3-Dichloropropene	1	0.40	0.7700	U	0.1200	U	120.0000	U	0.1200	U	0.8200	U	0.1200	U	0.6600	U	0.1200	U	0.8400	U	0.1200	U	0.8800	U	0.1200	U
Dibromochloromethane	3	0.50	0.4300	U	0.0780	U	77.0000	U	0.0780	U	0.4600	U	0.0780	U	0.3600	U	0.0780	U	0.4700	U	0.0780	U	0.4900	U	0.0780	U
Ethylbenzene	600	30.00	2.9000	J	0.1100	U	59.0000	U	0.3000	J	0.7500	U	0.1100	U	0.2800	U	0.1100	U	1.4000	U	0.1900	U	0.8600	U	0.1100	U
Methylene chloride	20	5.00	1.3000	J	0.6100	U	60.0000	U	0.6100	U	1.4000	J	0.6100	U	0.9300	J	0.6100	U	1.2000	J	0.6100	U	1.2000	J	0.6100	U
Styrene	3600	100.00	0.5800	U	0.0500	U	150.0000	U	0.0500	U	0.6200	U	0.0500	U	0.5000	U	0.0500	U	0.6400	U	0.0500	U	0.6700	U	0.0500	U
Tetrachloroethene	30	3.00	**30.0000**		0.4300	U	100.0000	U	0.4300	U	1.3000	J	0.4300	U	0.9200	U	1.0000		1.2000	U	0.4300	U	1.2000	U	0.4300	U
Toluene	500	40.00	0.7100	U	0.2800	U	74.0000	U	0.0650	U	0.7600	U	0.0650	U	0.6100	U	0.6800	U	0.7800	U	0.2200	U	0.8200	U	0.1900	U
trans-1,2-Dichloroethene	700	100.00	0.8800	U	0.3600	U	61.0000	U	0.3600	U	0.9400	U	0.3600	U	0.7500	U	0.3600	U	0.9600	U	0.3600	U	1.0000	U	0.3600	U
trans-1,3-Dichloropropene	1	0.40	1.1000	U	0.1500	U	69.0000	U	0.1500	U	1.2000	U	0.1500	U	0.9400	U	0.1500	U	1.2000	U	0.1500	U	1.2000	U	0.1500	U
Trichloroethene	30	3.00	0.8400	U	0.1300	U	120.0000	U	0.1300	U	0.9000	U	0.1300	U	0.7200	U	2.6000		0.9200	U	0.1300	U	0.9700	U	0.1300	U
Vinyl chloride	7	1.00	1.6000	U	0.1300	U	120.0000	U	0.1300	U	1.8000	U	0.1300	U	1.4000	U	0.1300	U	1.8000	U	0.1300	U	1.9000	U	0.1300	U
Xylene (Total)	200	20.00	15.0000		1.3000	U	160.0000	U	0.2800	U	1.1000	U	0.2800	U	0.9100	U	0.4500	U	8.0000	J	1.2000	U	4.9000	J	1.0000	U

Notes:
NA = Not Applicable
U = not detected
J = Compound present below Method Detection Limit but above Instrument Detection Limit
Bolding in BULK indicates exceedance of the SCTL.
Bolding in LEACHATE indicates exceedance of GCTL.
Soil / Groundwater Detection couplets shown in italics.

Table 16
VOAs SPLP Results, Operable Unit 2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTL (ppb)	WELL ID --> Florida GCTL (ppb)	030S00S310				030S012005				030S012403				030S012503				030S012505				030S013706			
			BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE		BULK		LEACHATE	
1,1,1-Trichloroethane	1900	200	0.6200	U	0.0650	U	0.8300	U	0.0650	U	0.7000	U	0.0650	U	0.7500	U	0.0650	U	0.6400	U	0.0650	U	0.6200	U	0.0650	U
1,1,2,2-Tetrachloroethane	10	1.50	0.6500	U	0.1700	U	0.8700	U	0.1700	U	0.7400	U	0.1700	U	0.7900	U	0.1700	U	0.6800	U	0.1700	U	0.6500	U	0.1700	U
1,1,2-Trichloroethane	30	5.00	1.1000	U	0.1100	U	1.5000	U	0.1100	U	1.2000	U	0.1100	U	1.4000	U	0.1100	U	1.2000	U	0.1100	U	1.1000	U	0.1100	U
1,1-Dichloroethane	400	76.00	0.9200	U	0.1200	U	1.2000	U	0.1200	U	1.0000	U	0.1200	U	1.1000	U	0.1200	U	0.9500	U	0.1200	U	0.9200	U	0.1200	U
1,1-Dichloroethene	60	7.00	0.6600	U	0.3100	U	0.8900	U	0.3100	U	0.7500	U	0.3100	U	0.8100	U	0.3100	U	0.6900	U	0.3100	U	0.6600	U	0.3100	U
1,2-Dichloroethane	10	3.00	0.7600	U	0.1800	U	1.0000	U	0.1800	U	0.8500	U	0.1800	U	0.9200	U	0.1800	U	0.7800	U	0.1800	U	0.7600	U	0.1800	U
1,2-Dichloropropane	30	5.00	0.7400	U	0.1700	U	0.9900	U	0.1700	U	0.8400	U	0.1700	U	0.9000	U	0.1700	U	0.7700	U	0.1700	U	0.7400	U	0.1700	U
2-Butanone (MEK)	17000	4600.00	0.3200	U	0.4800	U	2.4000	U	2.2000	U	0.3600	U	0.4800	U	2.3000	U	0.4800	U	0.3300	U	0.4800	U	0.3200	U	0.4800	U
2-Hexanone	1400	300.00	0.4900	U	0.2900	U	0.6600	U	1.4000	J	0.5600	U	0.2900	U	0.6000	U	0.2900	U	0.5100	U	0.2900	U	0.4900	U	0.2900	U
4-Methyl-2-Pentanone (MIBK)	2600	610.00	0.4400	U	0.2700	U	0.5800	U	1.5000	J	0.4900	U	0.2700	U	0.5300	U	0.2700	U	0.4500	U	0.2700	U	0.4400	U	0.2700	U
Acetone	2800	760.00	5.7000	U	4.2000	U	7.6000	U	2.3000	U	19.0000	J	2.3000	U	31.0000	J	2.3000	U	6.0000	U	2.3000	U	5.7000	U	2.9000	U
Benzene	7	1.00	0.4400	U	0.0960	U	0.5800	U	0.0960	U	0.4900	U	0.0960	U	0.5300	U	0.0960	U	0.4500	U	0.0960	U	0.4400	U	0.0960	U
Bromodichloromethane	4	0.60	0.3600	U	0.1800	U	0.4700	U	0.1800	U	0.4000	U	0.1800	U	0.4300	U	0.1800	U	0.3700	U	0.1800	U	0.3600	U	0.1800	U
Bromoform	30	4.80	0.7800	U	0.1900	U	1.0000	U	0.1900	U	0.8800	U	0.1900	U	0.9500	U	0.1900	U	0.8100	U	0.1900	U	0.7800	U	0.1900	U
Bromomethane	50	11.00	0.6500	U	0.4900	U	0.8700	U	0.4900	U	0.7400	U	0.4900	U	0.7900	U	0.4900	U	0.6800	U	0.4900	U	0.6500	U	0.4900	U
Carbon disulfide	5600	760.00	0.4600	U	0.7200	U	0.6100	U	0.7200	U	0.5200	U	0.7200	U	0.5600	U	0.7200	U	0.4800	U	0.7200	U	0.4600	U	0.7200	U
Carbon tetrachloride	40	3.00	0.4000	U	0.1500	U	0.5400	U	0.1500	U	0.4500	U	0.1500	U	0.4900	U	0.1500	U	0.4200	U	0.1500	U	0.4000	U	0.1500	U
Chlorobenzene	1300	100.00	0.8500	U	0.1000	U	1.1000	U	0.1000	U	0.9600	U	0.1000	U	1.0000	U	0.1000	U	0.8800	U	0.1000	U	0.8500	U	0.1000	U
Chloroethane	NA	13.00	0.6500	U	0.8600	U	0.8700	U	0.8600	U	0.7400	U	0.8600	U	0.7900	U	0.8600	U	0.6800	U	0.8600	U	0.6500	U	0.8600	U
Chloroform	30	76.00	0.5000	U	0.1200	U	0.6700	U	0.1200	U	0.5700	U	0.1200	U	0.6100	U	0.1200	U	0.5200	U	0.1200	U	0.5000	U	0.1200	U
Chloromethane	10	2.90	1.6000	U	0.5100	U	2.1000	U	0.4000	U	1.8000	U	0.4000	U	2.0000	U	0.4000	U	1.7000	U	0.4000	U	1.6000	U	0.4000	U
cis-1,2-Dichloroethene	400	70.00	0.4500	U	0.1600	U	0.6000	U	0.1600	U	0.5000	U	0.1600	U	0.5400	U	0.1600	U	0.4600	U	0.1600	U	0.4500	U	0.1600	U
cis-1,3-Dichloropropene	1	0.40	0.8000	U	0.1200	U	1.1000	U	0.1200	U	0.9000	U	0.1200	U	0.9800	U	0.1200	U	0.8300	U	0.1200	U	0.8000	U	0.1200	U
Dibromochloromethane	3	0.50	0.4500	U	0.0780	U	0.6000	U	0.0780	U	0.5000	U	0.0780	U	0.5400	U	0.0780	U	0.4600	U	0.0780	U	0.4500	U	0.0780	U
Ethylbenzene	600	30.00	0.6200	U	0.1100	U	0.4600	U	0.1100	U	0.3900	U	0.1100	U	0.4200	U	0.1100	U	0.3600	U	0.1100	U	13.0000		0.1100	U
Methylene chloride	20	5.00	1.3000	J	0.6100	U	1.6000	U	0.6100	U	1.3000	U	0.6100	U	1.3000	U	0.6100	U	1.4000	U	0.6100	U	1.0000	J	0.6100	U
Styrene	3600	100.00	0.6100	U	0.0500	U	0.8100	U	0.0500	U	0.6800	U	0.0500	U	0.7400	U	0.0500	U	0.6300	U	0.0500	U	0.6100	U	0.1100	U
Tetrachloroethene	30	3.00	1.1000	U	0.4300	U	1.5000	U	0.4300	U	1.3000	U	0.4300	U	1.4000	U	0.4300	U	1.2000	U	0.4300	U	1.1000	U	0.4300	U
Toluene	500	40.00	0.7400	U	0.3400	U	0.9900	U	0.0650	U	0.8400	U	0.0650	U	0.9000	U	0.8300	U	0.7700	U	0.0650	U	0.7400	U	0.3300	U
trans-1,2-Dichloroethene	700	100.00	0.9200	U	0.3600	U	1.2000	U	0.3600	U	1.0000	U	0.3600	U	1.1000	U	0.3600	U	0.9500	U	0.3600	U	0.9200	U	0.3600	U
trans-1,3-Dichloropropene	1	0.40	1.1000	U	0.1500	U	1.5000	U	0.1500	U	1.3000	U	0.1500	U	1.4000	U	0.1500	U	1.2000	U	0.1500	U	1.1000	U	0.1500	U
Trichloroethene	30	3.00	0.8800	U	0.1300	U	1.2000	U	0.1300	U	0.9900	U	0.1300	U	1.1000	U	0.1300	U	0.9200	U	0.1300	U	0.8800	U	0.2400	J
Vinyl chloride	7	1.00	1.7000	U	0.1300	U	2.3000	U	0.1300	U	1.9000	U	0.1300	U	2.1000	U	0.1300	U	1.8000	U	0.1300	U	1.7000	U	0.1300	U
Xylene (Total)	200	20.00	3.2000	U	2.8000	U	1.5000	U	0.2800	U	1.2000	U	0.2800	U	1.4000	U	0.2800	U	1.2000	U	0.2800	U	80.0000		1.5000	U

Notes:
NA = Not Applicable
U = not detected
J = Compound present below Method Detection Limit but above Instrument D
Bolding in BULK indicates exceedance of the SCTL.
Bolding in LEACHATE indicates exceedance of GCTL.
Soil / Groundwater Detection couplets shown in italics.

Table 16
VOAs SPLP Results, Operable Unit 2, 2003 RI Addendum, NASP

PARAMETER	Florida SCTL (ppb)	WELL ID --> Florida GCTL (ppb)	030S013806 BULK		030S013806 LEACHATE		030S013820 BULK		030S013820 LEACHATE		030S014206 BULK		030S014206 LEACHATE		030S014806 BULK		030S014806 LEACHATE		030S015016 BULK		030S015016 LEACHATE	
1,1,1-Trichloroethane	1900	200	0.6000	U	0.0650	U	240.0000	U	0.0650	U	0.7400	U	0.0650	U	0.6000	U	0.0650	U	**2003**		0.0650	U
1,1,2,2-Tetrachloroethane	10	1.50	0.6400	U	0.1700	U	170.0000	U	0.1700	U	0.7800	U	0.1700	U	0.6400	U	0.1700	U	0.6200	U	0.3300	J
1,1,2-Trichloroethane	30	5.00	1.1000	U	0.1100	U	88.0000	U	0.1100	U	1.3000	U	0.1100	U	1.1000	U	0.1100	U	0.6600	U	0.1100	U
1,1-Dichloroethane	400	76.00	0.9000	U	0.1200	U	75.0000	U	0.1200	U	1.1000	U	0.1200	U	0.9000	U	0.1200	U	1.1000	U	0.1200	U
1,1-Dichloroethene	60	7.00	0.6500	U	0.3100	U	180.0000	U	0.3100	U	0.7900	U	0.3100	U	0.6500	U	0.3100	U	0.9200	U	0.3100	U
1,2-Dichloroethane	10	3.00	0.7400	U	0.1800	U	210.0000	U	0.1800	U	0.9000	U	0.1800	U	0.7400	U	0.1800	U	0.6700	U	0.1800	U
1,2-Dichloropropane	30	5.00	0.7300	U	0.1700	U	200.0000	U	0.1700	U	0.8900	U	0.1700	U	0.7300	U	0.1700	U	0.7600	U	0.1700	U
2-Butanone (MEK)	17000	4600.00	4.2000	U	0.4800	U	360.0000	U	0.4800	U	0.3800	U	0.4800	U	0.3100	U	0.4800	U	0.7500	U	0.4800	U
2-Hexanone	1400	300.00	0.4800	U	0.2900	U	1100.0000	U	0.2900	U	0.5900	U	0.2900	U	0.4800	U	0.2900	U	0.3200	U	0.2900	U
4-Methyl-2-Pentanone (MIBK)	2600	610.00	1.5000	J	0.2700	U	300.0000	U	0.2700	U	0.5200	U	0.2700	U	0.4200	U	0.2700	U	0.5000	U	0.2700	U
Acetone	2800	760.00	5.6000	U	2.3000	U	1100.0000	U	2.9000	U	6.8000	U	2.7000	U	5.6000	U	5.8000	U	0.4400	U	4.4000	U
Benzene	7	1.00	0.4200	U	0.0960	U	99.0000	U	0.0960	U	0.5200	U	0.0960	U	0.4200	U	0.0960	U	5.8000	U	0.0960	U
Bromodichloromethane	4	0.60	0.3500	U	0.1800	U	180.0000	U	0.1800	U	0.4200	U	0.1800	U	0.3500	U	0.1800	U	0.4400	U	0.1800	U
Bromoform	30	4.80	0.7600	U	0.1900	U	96.0000	U	0.1900	U	0.9300	U	0.1900	U	0.7600	U	0.1900	U	0.3600	U	0.1900	U
Bromomethane	50	11.00	0.6400	U	0.4900	U	210.0000	U	0.4900	U	0.7800	U	0.4900	U	0.6400	U	0.4900	U	0.7900	U	0.4900	U
Carbon disulfide	5600	760.00	0.4500	U	0.7200	U	170.0000	U	0.7200	U	0.5400	U	0.7200	U	0.4500	U	0.7200	U	0.6600	U	0.7200	U
Carbon tetrachloride	40	3.00	0.3900	U	0.1500	U	260.0000	U	0.1500	U	0.4800	U	0.1500	U	0.3900	U	0.1500	U	0.4600	U	0.1500	U
Chlorobenzene	1300	100.00	0.8300	U	0.1000	U	130.0000	U	0.1000	U	1.0000	U	0.1000	U	0.8300	U	0.1000	U	0.4000	U	0.1000	U
Chloroethane	NA	13.00	0.6400	U	0.8600	U	210.0000	U	0.8600	U	0.7800	U	0.8600	U	0.6400	U	0.8600	U	0.8600	U	0.8600	U
Chloroform	30	76.00	0.4900	U	0.1200	U	84.0000	U	0.1200	U	0.6000	U	0.1200	U	0.4900	U	0.1200	U	0.6600	U	0.1200	U
Chloromethane	10	2.90	1.6000	U	0.4000	U	210.0000	U	0.4000	U	1.9000	U	0.4000	U	1.6000	U	0.4000	U	0.5100	U	0.4000	U
cis-1,2-Dichloroethene	400	70.00	0.4400	U	0.1600	U	120.0000	U	0.1600	U	0.5300	U	0.1600	U	0.4400	U	0.1600	U	1.6000	U	0.1600	U
cis-1,3-Dichloropropene	1	0.40	0.7800	U	0.1200	U	210.0000	U	0.1200	U	0.9500	U	0.1200	U	0.7800	U	0.1200	U	0.4500	U	0.1200	U
Dibromochloromethane	3	0.50	0.4400	U	0.0780	U	140.0000	U	0.0780	U	0.5300	U	0.0780	U	0.4400	U	0.0780	U	0.8100	U	0.0780	U
Ethylbenzene	600	30.00	0.3400	U	0.1100	U	***19000.0000***		*20.0000*		0.4100	U	0.1100	U	0.4300	U	0.1100	U	0.4500	U	0.1900	U
Methylene chloride	20	5.00	1.3000	J	0.6100	U	110.0000	U	0.6100	U	1.4000	J	0.6100	U	1.0000	J	0.6100	U	0.8100	U	0.6100	U
Styrene	3600	100.00	0.5900	U	0.0500	U	280.0000	U	0.0500	U	0.7200	U	0.0500	U	0.5900	U	0.0500	U	1.4000	J	0.0530	U
Tetrachloroethene	30	3.00	1.1000	U	0.4300	U	**220.0000**	J	0.4300	U	1.3000	U	0.4300	U	1.1000	U	0.7100	J	0.6100	U	0.4300	U
Toluene	500	40.00	0.7300	U	0.0650	U	420.0000	J	0.2000	U	0.8900	U	0.7200	U	0.7300	U	0.3000	U	1.1000	U	0.2200	U
trans-1,2-Dichloroethene	700	100.00	0.9000	U	0.3600	U	110.0000	U	0.3600	U	1.1000	U	0.3600	U	0.9000	U	0.3600	U	0.7500	U	0.3600	U
trans-1,3-Dichloropropene	1	0.40	1.1000	U	0.1500	U	130.0000	U	0.1500	U	1.4000	U	0.1500	U	1.1000	U	0.1500	U	0.9200	U	0.1500	U
Trichloroethene	30	3.00	0.8600	U	0.1300	U	210.0000	U	0.1300	U	1.0000	U	0.1300	U	0.8600	U	1.0000		1.2000	U	0.1300	U
Vinyl chloride	7	1.00	1.7000	U	0.1300	U	210.0000	U	0.1300	U	2.0000	U	0.1300	U	1.7000	U	0.1300	U	0.8900	U	0.1300	U
Xylene (Total)	200	20.00	1.1000	U	0.3200	U	***110000.0000***		*150.0000*		3.2000	U	1.2000	U	1.1000	U	0.8700	U	1.7000	U	1.3000	U

Notes:
NA = Not Applicable
U = not detected
J = Compound present below Method Detection Limit but above Instrument D
Bolding in BULK indicates exceedance of the SCTL.
Bolding in LEACHATE indicates exceedance of GCTL.
Soil / Groundwater Detection couplets shown in italics.

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

	Florida CTLs (ppb)		WELL ID->	11GI02			11GI08			11GI10			11GI12			11GI14		
PARAMETER	GCTL	FSWCTL	MSWCTL	1993 RESULT	1995 RESULT	2003 RESULT	1993 RESULT	2003 RESULT		1993 RESULT	2003 RESULT		1993 RESULT	1995 RESULT	2003 RESULT	1993 RESULT	1995 RESULT	2003 RESULT
Acetone	760	1700	1700	10.00 U	5.00 U	17.00 U	10.00 U	13.00 U		10.00 U	2.30 U		10.00 U	7.00 UJ	7.40 U	50.00 U	11.00 UJ	8.80 U
Benzene	1	71.28	71.28	10.00 U	1.00 U	0.10 U	10.00 U	0.12 U		10.00 U	0.10 U		10.00 U	1.00 UJ	0.10 U	50.00 U	1.00 U	0.24 U
Bromodichloromethane	0.6	22	22	10.00 U	0.60 U	0.18 U	10.00 U	0.18 U		10.00 U	0.18 U		10.00 U	0.60 UJ	0.18 U	50.00 U	0.60 U	0.45 U
Bromoform	4.8	360	360	10.00 U	1.00 U	0.19 U	10.00 U	0.19 U		10.00 U	0.19 U		10.00 U	1.00 UJ	0.19 U	50.00 U	1.00 U	0.47 U
Bromomethane	11	35	35	10.00 U	1.00 UJ	0.49 U	10.00 U	0.49 U		10.00 U	0.49 U		10.00 U	1.00 UJ	0.49 U	50.00 U	1.00 UJ	1.20 U
2-Butanone (MEK)	4600	120000	120000	10.00 U	5.00 U	0.85 U	10.00 U	1.80 U		10.00 U	0.51 U		10.00 U	5.00 UJ	0.48 U	50.00 U	5.00 U	1.20 U
Carbon disulfide	760	110	110	10.00 U	1.00 U	0.72 U	10.00 U	0.72 U		10.00 U	0.72 U		10.00 U	1.00 UJ	0.72 U	50.00 U	1.00 U	1.80 U
Carbon tetrachloride	3	4.42	4.42	10.00 U	1.00 U	0.15 U	10.00 U	0.15 U		10.00 U	0.15 U		10.00 U	1.00 UJ	0.15 U	50.00 U	1.00 UJ	0.38 U
Chlorobenzene	100	17	17	10.00 U	1.00 U	0.10 U	10.00 U	0.10 U		10.00 U	0.10 U		10.00 U	1.00 UJ	0.10 U	50.00 U	1.00 U	0.25 U
Chloroethane	13	NA	NA	10.00 U	1.00 U	0.86 U	10.00 U	0.86 U		10.00 U	0.86 U		10.00 U	1.00 UJ	0.86 U	50.00 U	1.00 U	2.20 U
Chloroform	76	470.8	470.8	10.00 U	1.00 U	0.12 U	10.00 U	0.12 U		1.00 J	0.12 U		10.00 U	1.00 UJ	0.12 U	50.00 U	1.00 U	0.30 U
Chloromethane	2.9	470.8	470.8	10.00 U	1.00 U	0.40 U	10.00 U	0.40 U		10.00 U	0.40 U		10.00 U	1.00 UJ	0.40 U	50.00 U	1.00 U	1.00 U
Dibromochloromethane	0.5	34	34	10.00 U	1.00 U	0.08 U	10.00 U	0.08 U		10.00 U	0.08 U		10.00 U	1.00 UJ	0.08 U	50.00 U	1.00 U	0.19 U
1,1-Dichloroethane	76	NA	NA	10.00 U	5.00	5.20	10.00 U	0.12 U		10.00 U	0.12 U		10.00 U	1.00 UJ	8.10	50.00 U	0.10 J	5.40
1,2-Dichloroethane	3	40	40	10.00 U	1.00 U	0.18 U	10.00 U	0.18 U		**9.00** J	**8.50**		10.00 U	1.00 UJ	0.18 U	50.00 U	0.20 J	0.45 U
1,1-Dichloroethene	7	3.2	3.2	10.00 U	0.40 J	0.58 J	10.00 U	0.31 U		10.00 U	0.31 U		10.00 U	1.00 UJ	1.10	50.00 U	0.90 J	4.70
cis-1,2-Dichloroethene	70	NA	NA	na	15.00	38.00	na	0.16 U		na	1.20		na	32.00 J	**88.00**	na	**240.00** D	**360.00**
trans-1,2-Dichloroethene	100	11000	11000	na	0.20 J	0.36 U	na	0.36 U		na	0.36 U		na	1.00 UJ	0.65 J	na	1.00	3.20
1,2-Dichloroethene (total)	NA	7000	7000	16.00	na	na	10.00 U	na		3.00 J	na		110.00	na	na	580.00	na	na
1,2-Dichloropropane	5	16	16	10.00 U	1.00 U	0.17 U	10.00 U	0.17 U		10.00 U	0.17 U		10.00 U	1.00 UJ	0.17 U	50.00 U	3.00 J	0.42 U
cis-1,3-Dichloropropene	0.4*	12*	12*	10.00 U	1.00 U	0.12 U	10.00 U	0.12 U		10.00 U	0.12 U		10.00 U	1.00 UJ	0.12 U	50.00 U	1.00 U	0.30 U
trans-1,3-Dichloropropene	0.4*	12*	12*	10.00 U	1.00 U	0.15 U	10.00 U	0.15 U		10.00 U	0.15 U		10.00 U	1.00 UJ	0.15 U	50.00 U	1.00 U	0.38 U
Ethylbenzene	30	610	610	10.00 U	1.00 U	0.11 U	10.00 U	0.11 U		10.00 U	0.11 U		10.00 U	1.00 UJ	0.11 U	50.00 U	1.00 U	0.28 U
2-Hexanone	300	NA	NA	10.00 U	5.00 U	0.29 U	10.00 U	0.29 U		10.00 U	0.29 U		10.00 U	5.00 UJ	0.29 U	50.00 U	5.00 U	0.72 U
Methylene chloride	5	1580	1580	10.00 U	2.00 U	0.61 U	10.00 U	0.61 U		10.00 U	0.61 U		10.00 U	2.00 UJ	0.61 U	50.00 U	2.00 U	1.50 U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00 U	5.00 U	0.27 U	10.00 U	0.27 U		10.00 U	0.27 U		10.00 U	5.00 UJ	0.27 U	50.00 U	5.00 U	0.68 U
Styrene	100	460	460	10.00 U	1.00 U	0.22 U	10.00 U	0.38 U		10.00 U	0.05 U		10.00 U	1.00 UJ	0.18 U	50.00 U	1.00 U	0.12 U
Tetrachloroethene	3	8.85	8.85	10.00 U	0.30 J	**25.00**	10.00 U	0.43 U		10.00 U	0.43 U		10.00 U	1.00 UJ	**3.50**	50.00 U	1.00 U	1.10 U
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	10.00 U	0.20 U	0.17 U	10.00 U	0.17 U		10.00 U	0.17 U		10.00 U	0.20 UJ	0.17 U	50.00 U	0.20 U	0.42 U
1,1,1-Trichloroethane	200	270	270	10.00 U	1.00 U	0.07 U	10.00 U	0.07 U		10.00 U	0.07 U		10.00 U	1.00 UJ	0.07 U	50.00 U	1.00 U	0.16 U
1,1,2-Trichloroethane	5	17	17	10.00 U	1.00 U	0.11 U	10.00 U	0.11 U		10.00 U	0.11 U		10.00 U	1.00 UJ	0.11 U	50.00 U	1.00 U	0.28 U
Trichloroethene	3	80.7	80.7	**3.00** J	**3.00**	**22.00**	10.00 U	0.13 U		10.00 U	0.62 J		**14.00**	**11.00** J	**14.00**	50.00 U	1.00	**7.50**
Toluene	40	480	480	10.00 U	1.00 U	0.07 U	10.00 U	0.10 U		10.00 U	0.07 U		10.00 U	1.00 UJ	0.12 U	50.00 U	1.00 U	0.16 U
Vinyl chloride	1	2.6	2.6	10.00 U	1.00 U	0.13 U	10.00 U	0.13 U		10.00 U	0.13 U		10.00 U	1.00 UJ	0.13 U	**88.00**	**33.00**	**5.80**
Xylene (Total)	20	370	370	10.00 U	1.00 U	0.28 U	10.00 U	0.28 U		10.00 U	0.28 U		10.00 U	1.00 UJ	0.28 U	50.00 U	1.00 U	0.70 U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	11GI15		11GS05			11GS07		11GS09		11GS13		
	Florida CTLs (ppb)			1993	2003	1993	1995	2003	1993	2003	1993	2003	1993	1995	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Acetone	760	1700	1700	140.00	6.70 U	56.00 U	5.00 UJ	7.80 U	10.00 U	14.00 U	11.00 J	3.80 U	10.00 U	5.00 UR	90.00 U
Benzene	1	71.28	71.28	10.00 U	0.10 U	10.00 U	1.00 U	0.12 U	10.00 U	0.10 U	10.00 U	0.10 U	10.00 U	0.40 J	0.17 U
Bromodichloromethane	0.6	22	22	10.00 U	0.18 U	10.00 U	0.60 U	0.18 U	10.00 U	0.18 U	10.00 U	0.18 U	10.00 U	0.60 UJ	0.18 U
Bromoform	4.8	360	360	10.00 U	0.19 U	10.00 U	1.00 U	0.19 U	10.00 U	0.19 U	10.00 U	0.19 U	10.00 U	1.00 UJ	0.19 U
Bromomethane	11	35	35	10.00 U	0.49 U	10.00 U	1.00 U	0.49 U	10.00 U	0.49 U	10.00 U	0.49 U	10.00 U	1.00 UJ	0.49 U
2-Butanone (MEK)	4600	120000	120000	10.00 U	1.60 U	10.00 U	3.00 J	0.48 U	10.00 U	1.20 U	10.00 U	0.48 U	10.00 U	5.00 UJ	2.50 U
Carbon disulfide	760	110	110	1.00 J	0.72 U	10.00 U	1.00 U	0.72 U	10.00 U	0.72 U	10.00 U	0.72 U	10.00 U	1.00 UJ	0.72 U
Carbon tetrachloride	3	4.42	4.42	10.00 U	0.15 U	10.00 U	1.00 U	0.15 U	10.00 U	0.15 U	10.00 U	0.15 U	10.00 U	1.00 UJ	0.15 U
Chlorobenzene	100	17	17	10.00 U	0.10 U	10.00 U	1.00 U	0.10 U	10.00 U	0.10 U	10.00 U	0.10 U	10.00 U	1.00 UJ	0.10 U
Chloroethane	13	NA	NA	10.00 U	0.86 U	10.00 U	1.00 U	0.86 U	10.00 U	0.86 U	10.00 U	0.86 U	10.00 U	1.00 UJ	0.86 U
Chloroform	76	470.8	470.8	10.00 U	0.12 U	10.00 U	1.00 U	0.12 U	10.00 U	0.12 U	10.00 U	0.12 U	10.00 U	1.00 UJ	0.12 U
Chloromethane	2.9	470.8	470.8	10.00 U	0.40 U	10.00 U	1.00 U	0.40 U	10.00 U	0.40 U	10.00 U	0.40 U	10.00 U	1.00 UJ	0.40 U
Dibromochloromethane	0.5	34	34	10.00 U	0.08 U	10.00 U	1.00 U	0.08 U	10.00 U	0.08 U	10.00 U	0.08 U	10.00 U	1.00 UJ	0.08 U
1,1-Dichloroethane	76	NA	NA	10.00 U	0.12 U	10.00 U	1.00 U	0.12 U	10.00 U	0.12 U	10.00 U	0.12 U	10.00 U	22.00 J	0.12 U
1,2-Dichloroethane	3	40	40	10.00 U	0.18 U	10.00 U	1.00 U	0.18 U	10.00 U	0.18 U	10.00 U	0.18 U	10.00 U	1.00 UJ	0.18 U
1,1-Dichloroethene	7	3.2	3.2	10.00 U	0.31 U	10.00 U	1.00 U	0.31 U	10.00 U	0.31 U	10.00 U	0.31 U	10.00 U	2.00 J	0.31 U
cis-1,2-Dichloroethene	70	NA	NA	na	0.16 U	na	17.00	4.50	na	0.16 U	na	0.20 J	na	28.00 J	0.16 U
trans-1,2-Dichloroethene	100	11000	11000	na	0.36 U	na	1.00 U	0.36 U	na	0.36 U	na	0.36 U	na	0.60 J	0.36 U
1,2-Dichloroethene (total)	NA	7000	7000	10.00 U	na	6.00 J	na	na	10.00 U	na	10.00 U	na	4.00 J	na	na
1,2-Dichloropropane	5	16	16	10.00 U	0.17 U	10.00 U	1.00 U	0.17 U	10.00 U	0.17 U	10.00 U	0.17 U	10.00 U	1.00 UJ	0.17 U
cis-1,3-Dichloropropene	0.4*	12*	12*	10.00 U	0.12 U	10.00 U	1.00 U	0.12 U	10.00 U	0.12 U	10.00 U	0.12 U	10.00 U	1.00 UJ	0.12 U
trans-1,3-Dichloropropene	0.4*	12*	12*	10.00 U	0.15 U	10.00 U	1.00 U	0.15 U	10.00 U	0.15 U	10.00 U	0.15 U	10.00 U	1.00 UJ	0.15 U
Ethylbenzene	30	610	610	10.00 U	0.11 U	10.00 U	2.00	0.59 U	10.00 U	0.11 U	10.00 U	0.11 U	10.00 U	1.00 UJ	0.13 U
2-Hexanone	300	NA	NA	10.00 U	0.29 U	10.00 U	5.00 U	0.29 U	10.00 U	0.29 U	10.00 U	0.29 U	10.00 U	5.00 UJ	0.29 U
Methylene chloride	5	1580	1580	10.00 U	0.61 U	10.00 U	2.00 U	0.61 U	10.00 U	0.61 U	10.00 U	0.61 U	10.00 U	2.00 UJ	0.61 U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00 U	0.27 U	10.00 U	5.00 U	0.27 U	10.00 U	0.27 U	10.00 U	0.27 U	10.00 U	5.00 UJ	0.27 U
Styrene	100	460	460	10.00 U	0.09 U	10.00 U	1.00 U	0.30 U	10.00 U	0.18 U	10.00 U	0.08 U	10.00 U	1.00 UJ	0.05 U
Tetrachloroethene	3	8.85	8.85	10.00 U	0.43 U	2.00 J	1.00 U	0.43 U	10.00 U	0.43 U	10.00 U	0.43 U	10.00 U	**7.00** J	0.43 U
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	10.00 U	0.17 U	10.00 U	0.20 U	0.17 U	10.00 U	0.17 U	10.00 U	0.17 U	10.00 U	1.00 UJ	0.17 U
1,1,1-Trichloroethane	200	270	270	10.00 U	0.07 U	10.00 U	1.00 U	0.07 U	10.00 U	0.07 U	10.00 U	0.07 U	10.00 U	1.00 UJ	0.07 U
1,1,2-Trichloroethane	5	17	17	10.00 U	0.11 U	10.00 U	1.00 U	0.11 U	10.00 U	0.11 U	10.00 U	0.11 U	10.00 U	1.00 UJ	0.11 U
Trichloroethene	3	80.7	80.7	10.00 U	0.16 J	**4.00** J	0.70 J	0.35 J	10.00 U	0.13 U	10.00 U	0.13 U	10.00 U	**5.00** J	0.13 U
Toluene	40	480	480	1.00 J	0.09 U	10.00 U	0.70 J	0.76 U	10.00 U	0.08 U	10.00 U	0.07 U	10.00 U	0.20 J	0.26 U
Vinyl chloride	1	2.6	2.6	10.00 U	0.13 U	10.00 U	1.00 U	0.13 U	10.00 U	0.13 U	10.00 U	0.37 J	10.00 U	**3.00** J	0.81 J
Xylene (Total)	20	370	370	10.00 U	0.28 U	10.00 U	**21.00**	4.80	10.00 U	0.28 U	10.00 U	0.28 U	10.00 U	1.00 UJ	0.34 U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	11GM28				11GM47						11GM52						12GS01				12GS06				12GS08			
	Florida CTLs (ppb)			1993		2003		1993		1995		2003		1993		1995		2003		1995		2003		1995		2003		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	25.00	U	10.00	U	70.00	J	8.70	U	50.00	UJ	11.00	UJ	18.00	U	5.00	UR	2.30	U	13.00	U	3.60	U	9.00	U	19.00	U
Benzene	1	71.28	71.28	10.00	U	**3.20**		10.00	U	**3.00**		**11.00**		50.00	U	0.30	J	0.24	U	1.00	U	0.10	U	1.00	U	0.10	U	1.00	U	0.10	U
Bromodichloromethane	0.6	22	22	10.00	U	0.18	U	10.00	U	0.60	U	0.18	U	50.00	U	0.60	U	0.18	U	1.00	U	0.18	U	1.00	U	0.18	U	1.00	U	0.18	U
Bromoform	4.8	360	360	10.00	U	0.19	U	10.00	U	1.00	U	0.19	U	50.00	U	1.00	U	0.19	U	1.00	U	0.19	U	1.00	U	0.19	U	1.00	U	0.19	U
Bromomethane	11	35	35	10.00	U	0.49	U	10.00	U	1.00	UJ	0.49	U	50.00	U	1.00	UJ	0.49	U	1.00	U	0.49	U	1.00	U	0.49	U	1.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	10.00	U	2.00	U	10.00	U	5.00	UJ	0.48	U	50.00	U	5.00	U	0.48	U	5.00	UR	0.90	U	5.00	UR	0.48	U	5.00	UR	1.60	U
Carbon disulfide	760	110	110	10.00	U	0.72	U	10.00	U	1.00	U	0.72	U	50.00	U	1.00	U	0.72	U	1.00	U	0.72	U	1.00	U	0.72	U	1.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U	1.00	U	0.15	U	1.00	UJ	0.15	U	1.00	U	0.15	U
Chlorobenzene	100	17	17	10.00	U	0.10	U	10.00	U	1.00	U	0.10	U	50.00	U	1.00	U	0.10	U	1.00	U	0.10	U	1.00	U	0.10	U	1.00	U	0.10	U
Chloroethane	13	NA	NA	10.00	U	0.86	U	10.00	U	1.00	U	0.86	U	50.00	U	1.00	U	0.86	U	1.00	U	0.86	U	1.00	U	0.86	U	1.00	U	0.86	U
Chloroform	76	470.8	470.8	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	50.00	U	0.30	J	0.12	U	0.50	J	0.23	U	2.00		0.64	U	1.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	10.00	U	0.40	U	10.00	U	1.00	U	0.40	U	50.00	U	1.00	UJ	0.40	U	1.00	U	0.40	U	1.00	U	0.40	U	1.00	U	0.40	U
Dibromochloromethane	0.5	34	34	10.00	U	0.08	U	10.00	U	1.00	U	0.08	U	50.00	U	1.00	U	0.08	U	1.00	U	0.08	U	1.00	U	0.08	U	1.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	9.00	J	72.00	D	2.20		1.00	U	0.12	U	1.00	U	0.12	U	1.00	U	0.12	U
1,2-Dichloroethane	3	40	40	10.00	U	0.18	U	10.00	U	1.00	U	0.18	U	50.00	U	1.00		0.18	U	1.00	U	0.18	U	1.00	U	0.18	U	1.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	10.00	U	0.31	U	10.00	U	1.00	U	0.31	U	50.00	U	**10.00**		2.40		1.00	U	0.31	U	1.00	U	0.31	U	1.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		0.50	J	na		1.00	U	2.30		na		**970.00**	D	**150.00**	D	1.00	U	0.16	U	1.00	U	0.16	U	na		0.16	U
trans-1,2-Dichloroethene	100	11000	11000	na		0.36	U	na		1.00	U	0.36	U	na		4.00		1.60		1.00	U	0.36	U	1.00	U	0.36	U	1.00	U	0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	10.00	U	na		9.00	J	na		na		420.00		na		na		na	na	na		na		na		na		na	
1,2-Dichloropropane	5	16	16	10.00	U	0.17	U	10.00	U	1.00	U	0.17	U	50.00	U	1.00	U	0.17	U	1.00	U	0.17	U	1.00	UJ	0.17	U	1.00	U	0.17	U
cis-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	50.00	U	1.00	U	0.12	U	1.00	U	0.12	U	1.00	U	0.12	U	1.00	U	0.12	U
trans-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U	1.00	U	0.15	U	1.00	U	0.15	U	1.00	U	0.15	U
Ethylbenzene	30	610	610	10.00	U	0.87	J	**58.00**		**70.00**	D	**59.00**		50.00	U	1.00	U	0.14	U	1.00	U	0.11	U	1.00	U	0.11	U	1.00	U	0.11	U
2-Hexanone	300	NA	NA	10.00	U	0.29	U	10.00	U	5.00	U	0.29	U	50.00	U	5.00	U	0.29	U	5.00	U	0.29	U	5.00	UR	0.29	U	5.00	UR	0.29	U
Methylene chloride	5	1580	1580	10.00	U	0.61	U	10.00	U	2.00	U	0.61	U	50.00	U	2.00	U	0.61	U	2.00	U	0.61	U	2.00	U	0.61	U	2.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	0.27	U	10.00	U	5.00	U	0.27	U	50.00	U	5.00	U	0.29	U	5.00	U	0.27	U	5.00	UR	0.27	U	5.00	U	0.27	U
Styrene	100	460	460	10.00	U	0.17	U	10.00	U	1.00	U	0.50	U	50.00	U	1.00	U	0.19	U	1.00	U	0.15	U	1.00	U	0.28	U	1.00	U	0.20	U
Tetrachloroethene	3	8.85	8.85	10.00	U	0.43	U	10.00	U	1.00	U	0.43	U	50.00	U	**23.00**		1.60		0.60	J	0.43	U	1.00		0.43	U	1.00	U	0.43	U
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	**2.00**	J	0.17	U	10.00	U	0.20	U	0.17	U	50.00	U	0.20	U	0.17	U	1.00	U	0.17	U	1.00	U	0.17	U	1.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	10.00	U	0.07	U	10.00	U	1.00	U	0.07	U	50.00	U	0.30	J	0.07	U	1.00	U	0.07	U	1.00	UJ	0.07	U	1.00	U	0.07	U
1,1,2-Trichloroethane	5	17	17	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	50.00	U	1.00	U	0.11	U	1.00	U	0.11	U	1.00	U	0.11	U	1.00	U	0.11	U
Trichloroethene	3	80.7	80.7	10.00	U	0.13	U	10.00	U	1.00	U	0.20	J	**20.00**	J	**50.00**		**15.00**		1.00	U	0.14	J	1.00	UJ	0.13	U	1.00	UJ	0.13	U
Toluene	40	480	480	10.00	U	0.37	U	6.00	J	5.00		4.50		50.00	U	1.00	U	0.23	U	1.00	U	0.07	U	1.00	U	0.07	U	1.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	**2.00**	J	0.88	J	**55.00**		**48.00**	D	**12.00**		**230.00**		**74.00**	D	**2.40**		1.00	U	0.13	U	1.00	U	0.13	U	1.00	U	0.13	U
Xylene (Total)	20	370	370	1.00	J	0.67	U	**200.00**		**250.00**	D	**170.00**		50.00	U	1.00	U	0.28	U	1.00	U	0.28	U	1.00	U	0.28	U	1.00	U	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	12GS10				12GS17		25GI01						25GI02						25GS04 (25GS10)		25GS10	
	Florida CTLs (ppb)			1995		2003		2003		1993		1995		2003		1993		1995		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	5.00	UR	5.00	U	3.60	U	10.00	U	5.00	U	2.30	U	10.00	U	22.00	UR	2.30	U	10.00	U	2.70	U
Benzene	1	71.28	71.28	1.00	U	0.10	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	0.10	U
Bromodichloromethane	0.6	22	22	1.00	U	0.18	U	0.18	U	10.00	U	0.60	U	0.18	U	10.00	U	0.60	U	0.18	U	10.00	U	0.18	U
Bromoform	4.8	360	360	1.00	U	0.19	U	0.19	U	10.00	U	1.00	U	0.19	U	10.00	U	1.00	U	0.19	U	10.00	U	0.19	U
Bromomethane	11	35	35	1.00	U	0.49	U	0.49	U	10.00	U	1.00	U	0.49	U	10.00	U	1.00	UJ	0.49	U	10.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	5.00	UR	0.93	U	1.20	U	10.00	U	5.00	U	0.68	U	10.00	U	5.00	U	0.48	U	10.00	U	0.83	U
Carbon disulfide	760	110	110	1.00	U	0.72	U	0.72	U	10.00	U	1.00	U	0.72	U	10.00	U	1.00	U	0.72	U	10.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	1.00	UJ	0.15	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	0.15	U
Chlorobenzene	100	17	17	1.00	U	0.10	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	1.00	U	2.10		10.00	U	0.10	U
Chloroethane	13	NA	NA	1.00	U	0.86	U	0.86	U	10.00	U	1.00	U	0.86	U	10.00	U	1.00	U	0.86	U	**44.00**		0.86	U
Chloroform	76	470.8	470.8	1.00	U	0.36	U	0.23	U	10.00	U	1.00	U	0.12	U	1.00	J	1.00	U	0.12	U	10.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	1.00	U	0.40	U	0.40	U	10.00	U	1.00	U	0.40	U	10.00	U	1.00	U	0.40	U	10.00	U	0.40	U
Dibromochloromethane	0.5	34	34	1.00	U	0.08	U	0.08	U	10.00	U	1.00	U	0.08	U	10.00	U	1.00	U	0.08	U	10.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	12.00		0.20	J	0.22	J	10.00	U	1.00		0.84	J	10.00	U	1.00		6.80		**90.00**		1.30	
1,2-Dichloroethane	3	40	40	1.00	U	0.18	U	0.18	U	10.00	U	1.00	U	0.18	U	10.00	U	1.00	U	0.18	U	10.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	0.80	J	0.31	U	0.31	U	10.00	U	0.40	J	0.31	U	1.00	J	0.60	J	0.51	J	3.00	J	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	3.00		6.70		11.00		na		0.50	J	0.38	J	na		0.20	J	0.16	U	na		3.80	
trans-1,2-Dichloroethene	100	11000	11000	1.00	U	0.36	U	0.36	U	na		1.00	U	0.36	U	na		1.00	U	0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	na		na		na		10.00	U	na		na		10.00	U	na		na		10.00	U	na	
1,2-Dichloropropane	5	16	16	1.00	UJ	0.17	U	0.17	U	10.00	U	1.00	U	0.17	U	10.00	U	1.00	U	0.17	U	10.00	U	0.17	U
cis-1,3-Dichloropropene	0.4*	12*	12*	1.00	U	0.12	U	0.12	U	10.00	U	1.00	U	0.12	U	10.00	U	1.00	U	0.12	U	10.00	U	0.12	U
trans-1,3-Dichloropropene	0.4*	12*	12*	1.00	U	0.15	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	0.15	U
Ethylbenzene	30	610	610	1.00	U	0.11	U	5.70		10.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U	2.00	J	4.80	
2-Hexanone	300	NA	NA	5.00	UR	0.29	U	0.29	U	10.00	U	5.00	U	0.29	U	10.00	U	5.00	U	0.29	U	10.00	U	0.29	U
Methylene chloride	5	1580	1580	2.00	U	0.61	U	0.61	U	12.00	U	2.00	U	0.61	U	10.00	U	2.00	U	0.61	U	10.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	5.00	UR	0.27	U	0.27	U	10.00	U	5.00	U	0.27	U	10.00	U	5.00	U	0.27	U	10.00	U	0.27	U
Styrene	100	460	460	1.00	U	0.31	U	0.05	U	10.00	U	1.00	U	0.08	U	10.00	U	1.00	U	0.05	U	10.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	2.00		1.50		2.40		10.00	U	0.90	J	0.43	U	1.00	J	2.00		0.43	U	10.00	U	0.43	U
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	1.00	U	0.17	U	0.17	U	10.00	U	0.20	U	0.17	U	10.00	U	0.20	U	0.17	U	10.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	1.00	UJ	0.07	U	0.07	U	10.00	U	1.00	U	0.07	U	2.00	J	0.60	J	0.07	U	10.00		0.07	U
1,1,2-Trichloroethane	5	17	17	1.00	U	0.11	U	0.11	U	10.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U	10.00	U	0.11	U
Trichloroethene	3	80.7	80.7	0.60	J	0.28	J	0.35	J	**14.00**		**17.00**		**8.20**		**5.00**	J	**10.00**		1.40		10.00	U	0.13	U
Toluene	40	480	480	1.00	U	0.07	U	0.35	U	10.00	U	1.00	U	0.07	U	10.00	U	1.00	U	0.07	U	10.00	U	0.32	U
Vinyl chloride	1	2.6	2.6	1.00	U	0.13	U	0.13	U	10.00	U	1.00	U	0.13	U	10.00	U	1.00	U	0.13	U	**7.00**	J	0.13	U
Xylene (Total)	20	370	370	1.00	U	0.28	U	0.28	U	10.00	U	1.00	U	0.28	U	10.00	U	1.00	U	0.28	U	5.00	J	18.00	

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	27GI02						27GI04				27GI06				27GS02						27GS04					
	Florida CTLs (ppb)			1993		1995		2003		1993		2003		1993		2003		1993		1995		2003		1993		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	13.00	UR	4.70	U	10.00	U	2.30	U	10.00	U	8.80	U	10.00	U	5.00	UR	12.00	U	10.00	U	5.00	U	19.00	U
Benzene	1	71.28	71.28	**25.00**		1.00	U	0.17	U	10.00	U	0.10	U	10.00	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	1.00	U	**3.10**	
Bromodichloromethane	0.6	22	22	10.00	U	0.60	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.60	U	0.18	U	10.00	U	0.60	U	0.18	U
Bromoform	4.8	360	360	10.00	U	1.00	U	0.19	U	10.00	U	0.19	U	10.00	U	0.19	U	10.00	U	1.00	U	0.19	U	10.00	U	1.00	U	0.19	U
Bromomethane	11	35	35	10.00	U	1.00	UJ	0.49	U	10.00	U	0.49	U	10.00	U	0.49	U	10.00	U	1.00	U	0.49	U	10.00	U	1.00	UJ	0.49	U
2-Butanone (MEK)	4600	120000	120000	10.00	U	5.00	U	0.48	U	10.00	U	0.60	U	10.00	U	0.48	U	10.00	U	5.00	UR	0.99	U	10.00	U	5.00	U	0.48	U
Carbon disulfide	760	110	110	10.00	U	1.00	U	0.72	U	10.00	U	0.72	U	10.00	U	0.72	U	10.00	U	1.00	U	0.72	U	10.00	U	1.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U
Chlorobenzene	100	17	17	95.00		1.00	U	0.10	U	10.00	U	0.10	U	10.00	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	1.00	U	0.10	U
Chloroethane	13	NA	NA	10.00	U	1.00	U	0.86	U	10.00	U	0.86	U	10.00	U	0.86	U	10.00	U	1.00	U	0.86	U	10.00	U	3.00		0.86	U
Chloroform	76	470.8	470.8	10.00	U	1.00	U	0.12	U	1.00	J	0.12	U	10.00	U	0.12	U	10.00	U	1.00	U	0.16	U	10.00	U	1.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	10.00	U	1.00	UJ	0.40	U	10.00	U	0.40	U	10.00	U	0.40	U	10.00	U	1.00	U	0.40	U	10.00	U	1.00	U	0.40	U
Dibromochloromethane	0.5	34	34	10.00	U	1.00	U	0.08	U	10.00	U	0.08	U	10.00	U	0.08	U	10.00	U	1.00	U	0.08	U	10.00	U	1.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	3.00	J	1.00	U	0.12	U	8.00	J	5.70		10.00	U	4.30		10.00	U	1.00	U	0.12	U	17.00		7.00		0.13	J
1,2-Dichloroethane	3	40	40	10.00	U	1.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	1.00	U	0.18	U	10.00	U	1.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	10.00	U	1.00	U	0.31	U	**14.00**		**18.00**		10.00	U	**16.00**		10.00	U	1.00	U	0.31	U	**51.00**		1.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		1.00	U	0.16	U	na		4.10		na		0.16	U	na		1.00	U	0.16	U	na		2.00		4.60	
trans-1,2-Dichloroethene	100	11000	11000	na		1.00	U	0.36	U	na		0.36	U	na		0.36	U	na		1.00	U	0.36	U	na		1.00	U	0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	2.00	J	na		na		10.00	U	na		10.00	U	na		10.00	U	na		na		1.00	J	na		na	
1,2-Dichloropropane	5	16	16	10.00	U	1.00	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U	10.00	U	1.00	U	0.17	U	10.00	U	1.00	U	0.17	U
cis-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	1.00	U	0.12	U	10.00	U	0.12	U	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	10.00	U	1.00	U	0.12	U
trans-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U
Ethylbenzene	30	610	610	4.00	J	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U
2-Hexanone	300	NA	NA	10.00	U	5.00	U	0.29	U	10.00	U	0.29	U	10.00	U	0.29	U	10.00	U	5.00	U	0.29	U	10.00	U	5.00	U	0.29	U
Methylene chloride	5	1580	1580	10.00	U	2.00	U	0.61	U	10.00	U	0.61	U	10.00	U	0.61	U	10.00	U	2.00	U	0.61	U	10.00	U	2.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	5.00	U	0.27	U	10.00	U	0.27	U	10.00	U	0.27	U	10.00	U	5.00	U	0.27	U	10.00	U	5.00	U	0.27	U
Styrene	100	460	460	10.00	U	1.00	U	0.05	U	10.00	U	0.11	U	10.00	U	0.09	U	10.00	U	1.00	U	0.26	U	10.00	U	1.00	U	0.14	U
Tetrachloroethene	3	8.85	8.85	10.00	U	1.00	U	0.43	U	10.00	U	2.00		10.00	U	0.63	J	10.00	U	0.40	J	0.43	U	10.00	U	1.00		1.10	
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	10.00	U	0.20	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U	10.00	U	0.20	U	0.17	U	10.00	U	0.20	U	0.17	U
1,1,1-Trichloroethane	200	270	270	10.00	U	1.00	U	0.10	J	12.00		0.30	J	10.00	U	0.07	U	5.00	J	2.00		0.20	J	55.00		1.00	U	0.07	U
1,1,2-Trichloroethane	5	17	17	10.00	U	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U
Trichloroethene	3	80.7	80.7	10.00	U	1.00	U	0.13	U	10.00	U	1.20		10.00	U	0.73	J	**3.00**	J	**3.00**		1.70		**3.00**	J	**7.00**		**3.30**	
Toluene	40	480	480	10.00	U	1.00	U	0.07	U	10.00	U	0.07	U	10.00	U	0.07	U	10.00	U	1.00	U	0.22	U	10.00	U	0.10	J	0.22	U
Vinyl chloride	1	2.6	2.6	**4.00**	J	1.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U	10.00	U	1.00	U	0.13	U	10.00	U	1.00	U	0.13	U
Xylene (Total)	20	370	370	**34.00**		1.00	U	0.28	U	10.00	U	0.28	U	10.00	U	0.28	U	10.00	U	1.00	U	0.28	U	10.00	U	1.00	U	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	27GS05				27GS10						27GS11						27GS17		27GS18			
	Florida CTLs (ppb)			1993		2003		1993		1995		2003		1993		1995		2003		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	2.30	U	10.00	U	5.00	U	2.30	U	17.00	U	5.00	UR	2.30	U	2.30	U	100.00	U	18.00	U
Benzene	1	71.28	71.28	10.00	U	0.10	U	10.00	U	1.00	U	0.10	U	17.00	U	1.00	UR	0.10	U	0.10	U	100.00	U	0.10	U
Bromodichloromethane	0.6	22	22	10.00	U	0.18	U	10.00	U	0.60	U	0.18	U	17.00	U	0.60	UR	0.18	U	0.18	U	100.00	U	0.18	U
Bromoform	4.8	360	360	10.00	U	0.19	U	10.00	U	1.00	U	0.19	U	17.00	U	1.00	UR	0.19	U	0.19	U	100.00	U	0.19	U
Bromomethane	11	35	35	10.00	U	0.49	U	10.00	U	1.00	UJ	0.49	U	17.00	U	1.00	UR	0.49	U	0.49	U	100.00	U	0.49	U
2 Butanone (MEK)	4600	120000	120000	10.00	U	0.58	U	10.00	U	5.00	U	0.86	U	17.00	U	5.00	UR	1.90	U	0.88	U	100.00	U	2.60	U
Carbon disulfide	760	110	110	10.00	U	0.72	U	10.00	U	1.00	U	0.72	U	17.00	U	1.00	UR	0.72	U	0.72	U	100.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	17.00	U	1.00	UR	0.15	U	0.15	U	100.00	U	0.15	U
Chlorobenzene	100	17	17	10.00	U	0.10	U	10.00	U	1.00	U	1.00		17.00	U	1.00	UR	0.10	U	0.10	U	100.00	U	0.10	U
Chloroethane	13	NA	NA	10.00	U	0.86	U	10.00	U	**22.00**		0.86	U	**84.00**		7.00	J	**13.00**		0.86	U	**33.00**	J	4.60	
Chloroform	76	470.8	470.8	1.00	U	0.77	J	10.00	U	0.40	J	0.12	U	4.00	J	4.00	J	0.12	U	0.12	U	100.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	10.00	U	0.40	U	10.00	U	1.00	U	0.40	U	17.00	U	1.00	UR	0.40	U	0.40	U	100.00	U	0.40	U
Dibromochloromethane	0.5	34	34	10.00	U	0.08	U	10.00	U	1.00	U	0.08	U	17.00	U	1.00	UR	0.08	U	0.08	U	100.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	7.00	J	0.55	J	7.00	J	260.00	D	1.90		**300.00**		**120.00**	D	35.00		4.90		20.00	J	4.50	
1,2-Dichloroethane	3	40	40	10.00	U	0.18	U	10.00	U	37.00	D	0.18	U	17.00	U	1.00	UR	0.18	U	0.18	U	100.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	3.00	J	0.31	U	**10.00**		**110.00**	D	2.20		**26.00**		**12.00**	J	1.20		0.31	U	100.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		0.16	U	na		15.00		4.40		na		5.00	J	1.60		0.83	J	na		2.90	
trans-1,2-Dichloroethene	100	11000	11000	na		0.36	U	na		1.00	U	0.36	U	na		1.00	UR	0.36	U	0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	10.00	U	na		10.00	U	na		na		17.00	U	na		na		na		24.00	J	na	
1,2-Dichloropropane	5	16	16	10.00	U	0.17	U	10.00	U	1.00	U	0.17	U	17.00	U	1.00	UR	0.17	U	0.17	U	100.00	U	0.17	U
cis-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	17.00	U	1.00	UR	0.12	U	0.12	U	100.00	U	0.12	U
trans-1,3-Dichloropropene	0.4*	12*	12*	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	17.00	U	1.00	UR	0.15	U	0.15	U	100.00	U	0.15	U
Ethylbenzene	30	610	610	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	17.00	U	1.00	UR	0.11	U	0.11	U	**42.00**	J	11.00	
2-Hexanone	300	NA	NA	10.00	U	0.29	U	10.00	U	5.00	U	0.29	U	17.00	U	5.00	UR	0.29	U	0.29	U	100.00	U	0.29	U
Methylene chloride	5	1580	1580	10.00	U	0.61	U	17.00	U	2.00	U	0.61	U	17.00	U	2.00	UR	0.61	U	0.61	U	100.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	0.27	U	10.00	U	5.00	U	0.27	U	17.00	U	5.00	UR	0.27	U	0.27	U	100.00	U	0.27	U
Styrene	100	460	460	10.00	U	0.05	U	10.00	U	1.00	U	0.05	U	17.00	U	1.00	UR	0.08	U	0.05	U	100.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	10.00	U	0.43	U	10.00	U	**9.00**		0.90	J	**4.00**	J	2.00	J	1.70		0.86	J	**62.00**	J	**10.00**	
1,1,2,2 Tetrachloroethane	0.2	10.8	10.8	10.00	U	0.17	U	10.00	U	0.20	U	0.17	U	17.00	U	0.20	UR	0.17	U	0.17	U	100.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	8.00	J	0.25	J	160.00		320.00	D	0.07	U	**300.00**		51.00	J	10.00		0.07	U	100.00	U	0.07	U
1,1,2-Trichloroethane	5	17	17	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	17.00	U	1.00	UR	0.11	U	0.11	U	100.00	U	0.11	U
Trichloroethene	3	80.7	80.7	10.00	U	0.13	U	1.00	J	1.00		0.56	J	17.00	U	1.00	UR	0.20	J	0.13	U	100.00	U	1.10	
Toluene	40	480	480	10.00	U	0.07	U	10.00	U	1.00	U	0.07	U	17.00	U	1.00	UR	0.07	U	0.07	U	100.00	U	0.42	U
Vinyl chloride	1	2.6	2.6	10.00	U	0.13	U	10.00	U	1.00	U	0.13	U	17.00	U	1.00	UR	0.13	U	0.13	U	100.00	U	0.13	U
Xylene (Total)	20	370	370	10.00	U	0.28	U	10.00	U	1.00	U	0.28	U	17.00	U	1.00	UR	0.42	U	0.28	U	**480.00**		**78.00**	

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	27GS19						27GS21					
	Florida CTLs (ppb)			1993		1995		2003		1993		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	100.00	U	4.00	J	2.30	U	10.00	U	5.00	U	2.30	U
Benzene	1	71.28	71.28	100.00	U	1.00	U	0.10	U	10.00	U	1.00	U	0.10	U
Bromodichloromethane	0.6	22	22	100.00	U	0.60	U	0.18	U	10.00	U	0.60	U	0.18	U
Bromoform	4.8	360	360	100.00	U	1.00	U	0.19	U	10.00	U	1.00	U	0.19	U
Bromomethane	11	35	35	100.00	U	1.00	U	0.49	U	10.00	U	1.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	100.00	U	5.00	UJ	6.10	U	10.00	U	5.00	U	0.61	U
Carbon disulfide	760	110	110	100.00	U	1.00	U	0.72	U	10.00	U	1.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	100.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U
Chlorobenzene	100	17	17	100.00	U	1.00	U	0.10	U	10.00	U	1.00	U	0.10	U
Chloroethane	13	NA	NA	**96.00**	J	2.00		0.86	U	**190.00**		8.00		0.86	U
Chloroform	76	470.8	470.8	100.00	U	1.00	U	0.16	U	10.00	U	1.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	100.00	U	1.00	U	0.40	U	10.00	U	1.00	U	0.40	U
Dibromochloromethane	0.5	34	34	100.00	U	1.00	U	0.08	U	10.00	U	1.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	72.00	J	3.00		1.40		45.00		17.00		3.10	
1,2-Dichloroethane	3	40	40	100.00	U	1.00	U	0.18	U	10.00	U	1.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	100.00	U	1.00	U	1.20		**15.00**		1.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		**25.00**	D	**300.00**	D	na		1.00	U	0.36	J
trans-1,2-Dichloroethene	100	11000	11000	na		1.00	U	0.36	U	na		1.00	U	0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	130.00		na		na		10.00	U	na		na	
1,2-Dichloropropane	5	16	16	100.00	U	1.00	U	0.17	U	10.00	U	1.00	U	0.17	U
cis-1,3-Dichloropropene	0.4*	12*	12*	100.00	U	1.00	U	0.12	U	10.00	U	1.00	U	0.12	U
trans-1,3-Dichloropropene	0.4*	12*	12*	100.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U
Ethylbenzene	30	610	610	**63.00**	J	10.00		**61.00**		3.00	J	1.00	U	0.11	U
2-Hexanone	300	NA	NA	100.00	U	5.00	U	0.29	U	10.00	U	5.00	U	0.29	U
Methylene chloride	5	1580	1580	10.00	U	2.00	U	0.61	U	21.00	U	2.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	100.00	U	5.00	U	0.27	U	10.00	U	5.00	U	0.27	U
Styrene	100	460	460	100.00	U	1.00	U	0.05	U	10.00	U	1.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	**61.00**	J	**32.00**	D	**65.00**		**3.00**	J	2.00		0.58	J
1,1,2,2-Tetrachloroethane	0.2	10.8	10.8	100.00	U	0.20	U	0.17	U	10.00	U	0.20	U	0.17	U
1,1,1-Trichloroethane	200	270	270	100.00	U	1.00	U	0.07	U	1.00	J	1.00	U	0.10	J
1,1,2-Trichloroethane	5	17	17	100.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U
Trichloroethene	3	80.7	80.7	**130.00**		**17.00**		**3.60**		10.00	U	1.00	U	0.13	U
Toluene	40	480	480	**53.00**	J	5.00		2.20		4.00	J	1.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	100.00	U	1.00	U	0.61	J	10.00	U	1.00	U	0.13	U
Xylene (Total)	20	370	370	**640.00**		**79.00**	D	**530.00**		**50.00**		1.00	U	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->				30GI19				30GI111						30GI113				30GI126				30GI164			
Florida CTLs (ppb)				1993		2003		1993		1995		2003		1993		2003		1993		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	5.50	U	5.00	U	1.00	J	5.80	U	10.00	UJ	4.20	U	8.00	J	6.50	U	100.00	U	2.30	U
Benzene	1	71.28	71.28	10.00	U	0.41	U	**7.00**		2.00	J	**2.80**		10.00	U	0.13	U	10.00	U	0.21	U	100.00	U	0.10	U
Bromodichloromethane	0.6	22	22	10.00	U	0.18	U	0.60	U	10.00	U	0.36	U	10.00	U	0.18	U	10.00	U	0.18	U	100.00	U	0.18	U
Bromoform	4.8	360	360	10.00	U	0.19	U	1.00	U	10.00	U	0.38	U	10.00	U	0.19	U	10.00	U	0.19	U	100.00	U	0.19	U
Bromomethane	11	35	35	10.00	U	0.49	U	1.00	U	10.00	U	0.98	U	10.00	U	0.49	U	10.00	U	0.49	U	100.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	10.00	U	0.95	U	5.00	UJ	10.00	U	1.10	U	10.00	UJ	1.30	U	10.00	UJ	0.68	U	100.00	U	0.48	U
Carbon disulfide	760	110	110	10.00	U	0.72	U	1.00	U	10.00	U	1.40	U	10.00	U	0.72	U	10.00	U	0.72	U	100.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	0.15	U	1.00	U	10.00	U	0.30	U	10.00	U	0.15	U	10.00	U	0.15	U	100.00	U	0.15	U
Chlorobenzene	100	17	17	10.00	U	0.10	U	**830.00**	UD	**620.00**	D	**450.00**	D	10.00	U	0.10	U	1.00	J	0.10	U	100.00	U	0.10	U
Chloroethane	13	NA	NA	10.00	U	0.86	U	1.00	U	5.00	J	1.70	U	10.00	U	0.86	U	10.00	U	0.86	U	100.00	U	0.86	U
Chloroform	76	470.8	470.8	10.00	U	0.12	U	1.00	U	10.00	U	0.24	U	10.00	U	0.12	U	10.00	U	0.12	U	100.00	U	1.90	
Chloromethane	2.9	470.8	470.8	10.00	U	0.40	U	1.00	U	10.00	U	0.80	U	10.00	U	0.40	U	10.00	U	0.40	U	na		0.40	U
Dibromochloromethane	0.5	34	34	10.00	U	0.08	U	1.00	U	10.00	U	0.16	U	10.00	U	0.08	U	10.00	U	0.08	U	100.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	10.00	U	0.12	U	5.00		4.00	J	0.24	U	10.00	U	0.12	U	10.00	U	0.12	U	**320.00**		13.00	
1,2-Dichloroethane	3	40	40	10.00	U	0.18	U	1.00	U	10.00	U	0.36	U	10.00	U	0.18	U	10.00	U	0.18	U	100.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	10.00	U	0.31	U	1.00	U	10.00	U	0.62	U	10.00	U	0.31	U	10.00	U	0.31	U	**410.00**		2.80	
cis-1,2-Dichloroethene	70	NA	NA	na		0.16	U	1.00	U	na		0.32	U	na		0.16	U	na		0.16	U	100.00	U	12.00	
trans-1,2-Dichloroethene	100	11000	11000	na		0.36	U	1.00	U	na		0.72	U	na		0.36	U	na		0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	10.00	U	na		na		10.00	U	na		10.00	U	na		10.00	U	na		100.00	U	na	
1,2-Dichloropropane	5	16	16	10.00	U	0.17	U	1.00	U	10.00	U	0.34	U	10.00	U	0.17	U	10.00	U	0.17	U	100.00	U	0.17	U
cis-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.17	U	1.00	U	10.00	U	0.24	U	10.00	U	0.12	U	10.00	U	0.12	U	100.00	U	0.12	U
trans-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.15	U	1.00	U	10.00	U	0.30	U	10.00	U	0.15	U	10.00	U	0.15	U	100.00	U	0.15	U
Ethylbenzene	30	610	610	10.00	U	0.74	J	1.00	U	1.00	J	0.22	U	10.00	U	0.11	U	10.00	U	0.11	U	100.00	U	0.11	U
2-Hexanone	300	NA	NA	10.00	U	0.29	U	5.00	U	10.00	U	0.58	U	10.00	UJ	0.29	U	10.00	UJ	0.29	U	100.00	U	0.29	U
Methylene chloride	5	1580	1580	10.00	U	0.61	U	2.00	U	10.00	U	1.20	U	10.00	U	0.61	U	2.00	J	0.61	U	**11.00**	J	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	0.27	U	5.00	U	10.00	U	0.54	U	10.00	UJ	0.27	U	10.00	UJ	0.27	U	100.00	U	0.27	U
Styrene	100	460	460	10.00	U	0.05	U	1.00	U	10.00	U	0.10	U	10.00	U	0.33	U	10.00	U	0.05	U	100.00	U	0.15	U
Tetrachloroethene	3	8.85	8.85	10.00	U	0.43	U	0.40	J	10.00	U	0.86	U	10.00	U	0.43	U	10.00	U	0.43	U	100.00	U	1.40	
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	10.00	U	0.17	U	0.20	U	10.00	U	0.34	U	10.00	UJ	0.17	U	10.00	UJ	0.17	U	100.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	10.00	U	0.07	U	1.00	U	10.00	U	0.13	U	10.00	U	0.07	U	10.00	U	0.07	U	**950.00**		0.07	U
1,1,2-Trichloroethane	5	17	17	10.00	U	0.11	U	1.00	U	10.00	U	0.22	U	10.00	U	0.11	U	10.00	U	0.11	U	100.00	U	0.11	U
Trichloroethene	3	80.7	80.7	**22.00**		0.13	U	1.00	U	10.00	U	1.50	J	10.00	U	0.22	U	10.00	U	0.13	U	100.00	U	0.34	J
Toluene	40	480	480	10.00	U	0.07	U	1.00		1.00	J	0.42	U	10.00	U	0.16	U	1.00	J	0.07	U	100.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	10.00	U	0.13	U	**15.00**		**20.00**		**7.90**		10.00	U	0.13	U	10.00	U	0.13	U	100.00	U	0.13	U
Xylene (Total)	20	370	370	10.00	U	0.28	U	1.00	U	6.00	J	0.56	U	10.00	U	0.28	U	3.00	J	0.28	U	100.00	U	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->				30GI170				30GI32A						30GS03				30GS05				30GS06					
Florida CTLs (ppb)				1993		2003		1993		1995		2003		1993		2003		1993		2003		1993		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	2.30	U	100.00	U	5.00	UR	7.10	U	10.00	UJ	2.70	U	10.00	U	6.30	U	100.00	U	5.00	U	12.00	U
Benzene	1	71.28	71.28	10.00	U	0.10	U	100.00	U	1.00	U	0.15	U	10.00	U	0.10	U	10.00	U	0.10	U	**250.00**		2.00		**2.60**	J
Bromodichloromethane	0.6	22	22	10.00	U	0.18	U	100.00	U	0.60	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U	100.00	U	0.60	U	0.90	U
Bromoform	4.8	360	360	10.00	U	0.19	U	100.00	U	1.00	U	0.19	U	10.00	U	0.19	U	10.00	U	0.19	U	100.00	U	1.00	U	0.95	U
Bromomethane	11	35	35	10.00	U	0.49	U	100.00	U	1.00	U	0.49	U	10.00	U	0.49	U	10.00	U	0.49	U	100.00	U	1.00	U	2.40	U
2-Butanone (MEK)	4600	120000	120000	10.00	U	0.48	U	70.00	J	5.00	UR	1.60	U	10.00	U	0.71	U	10.00	U	0.66	U	80.00	J	5.00	UJ	2.40	U
Carbon disulfide	760	110	110	10.00	U	0.72	U	100.00	U	1.00	U	0.72	U	10.00	U	0.72	U	10.00	U	0.72	U	100.00	U	1.00	U	3.60	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	0.15	U	100.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U	100.00	U	1.00	U	0.75	U
Chlorobenzene	100	17	17	10.00	U	0.80	J	100.00	U	1.00	U	0.10	U	10.00	U	0.10	U	10.00	U	0.10	U	100.00	U	1.00	U	0.50	U
Chloroethane	13	NA	NA	10.00	U	0.86	U	100.00	U	1.00	U	0.86	U	10.00	U	0.86	U	10.00	U	0.86	U	100.00	U	1.00	U	4.30	U
Chloroform	76	470.8	470.8	10.00	U	0.12	U	100.00	U	0.30	J	0.16	U	10.00	U	2.10		10.00	U	0.34	U	100.00	U	1.00	U	0.60	U
Chloromethane	2.9	470.8	470.8	10.00	U	0.49	U	100.00	U	1.00	U	0.40	U	10.00	U	0.40	U	10.00	U	0.40	U	100.00	U	1.00	U	2.00	U
Dibromochloromethane	0.5	34	34	10.00	U	0.08	U	100.00	U	1.00	U	0.08	U	10.00	U	0.08	U	10.00	U	0.08	U	100.00	U	1.00	U	0.39	U
1,1-Dichloroethane	76	NA	NA	1.00	J	0.25	J	60.00	J	9.00	J	0.12	U	2.00	J	1.20		10.00	U	0.12	U	15.00	J	1.00	U	0.60	U
1,2-Dichloroethane	3	40	40	10.00	U	0.18	U	100.00	U	1.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U	100.00	U	1.00	U	0.90	U
1,1-Dichloroethene	7	3.2	3.2	10.00	U	0.65	J	**14.00**	J	0.80	J	0.35	J	1.00	J	0.31	U	10.00	U	0.31	U	100.00	U	1.00	U	1.60	U
cis-1,2-Dichloroethene	70	NA	NA	na		**100.00**		na		1.00		0.16	U	na		0.16	U	na		0.38	J	na		2.00	J	0.80	U
trans-1,2-Dichloroethene	100	11000	11000	na		3.10		na		1.00	U	0.36	U	na		0.36	U	na		0.36	U	na		1.00	U	1.80	U
1,2-Dichloroethene (total)	NA	7000	7000	3.00	J	na		100.00	U	na		na		10.00	U	na		10.00	U	na		18.00	J	na		na	
1,2-Dichloropropane	5	16	16	10.00	U	0.17	U	100.00	U	1.00	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U	100.00	U	1.00	U	0.85	U
cis-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.12	U	100.00	U	1.00	U	0.12	U	10.00	U	0.12	U	10.00	U	0.12	U	100.00	U	1.00	U	0.60	U
trans-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.15	U	100.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U	100.00	U	1.00	U	0.75	U
Ethylbenzene	30	610	610	10.00	U	0.11	U	100.00	U	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.17	J	**380.00**		9.00		**810.00**	
2-Hexanone	300	NA	NA	10.00	U	0.29	U	100.00	U	5.00	U	0.29	U	10.00	U	0.29	U	10.00	U	0.29	U	100.00	U	5.00	U	1.40	U
Methylene chloride	5	1580	1580	10.00	U	0.61	U	100.00	U	2.00	U	0.61	U	10.00	U	0.61	U	10.00	U	0.61	U	**12.00**	J	2.00	U	3.00	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	0.27	U	100.00	U	5.00	U	0.27	U	10.00	U	0.27	U	10.00	U	0.27	U	100.00	U	5.00	U	1.40	U
Styrene	100	460	460	10.00	U	0.19	U	100.00	U	1.00	U	0.16	U	10.00	U	0.05	U	10.00	U	0.05	U	100.00	U	1.00	U	1.80	U
Tetrachloroethene	3	8.85	8.85	**3.00**	J	0.98	J	100.00	U	1.00	U	0.43	U	**7.00**	J	0.43	U	10.00	U	0.43	U	100.00	U	2.00		2.20	U
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	10.00	U	0.17	U	100.00	U	0.20	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U	100.00	U	0.20	U	0.85	U
1,1,1-Trichloroethane	200	270	270	2.00	J	0.07	U	**300.00**		16.00	J	0.07	U	14.00		0.07	U	10.00	U	0.07	U	13.00	J	1.00		0.32	U
1,1,2-Trichloroethane	5	17	17	10.00	U	0.11	U	100.00	U	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.11	U	100.00	U	1.00	U	0.55	U
Trichloroethene	3	80.7	80.7	**34.00**		**310.00**	D	100.00	U	1.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U	100.00	U	0.20	J	0.65	U
Toluene	40	480	480	10.00	U	0.10	U	100.00	U	1.00	U	0.15	U	10.00	U	0.07	U	10.00	U	0.07	U	**140.00**		0.60	J	16.00	
Vinyl chloride	1	2.6	2.6	10.00	U	**3.80**		100.00	U	1.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U	100.00	U	1.00	U	0.65	U
Xylene (Total)	20	370	370	10.00	U	0.28	U	100.00	U	1.00	U	0.28	U	10.00	U	0.28	U	10.00	U	0.28	U	**1200.00**		9.00	J	**500.00**	

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->	Florida CTLs (ppb)			30GS11				30GS15				30GS18						30GS20						30GS22					
				1993		2003		1993		2003		1993		1995		2003		1993		1995		2003		1993		1995		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	10.00	U	11.00	U	10.00	U	6.20	U	10.00	U	5.00	UR	3.60	U	10.00	U	5.00	UR	2.30	U	50.00	U	5.00	U	30.00	U
Benzene	1	71.28	71.28	10.00	U	0.22	U	10.00	U	0.11	U	10.00	U	1.00	U	0.50	J	10.00	U	1.00	U	0.10	U	50.00	U	1.00	U	0.16	U
Bromodichloromethane	0.6	22	22	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.60	U	0.18	U	10.00	U	0.60	U	0.18	U	50.00	U	0.60	U	0.18	U
Bromoform	4.8	360	360	10.00	U	0.19	U	10.00	U	0.19	U	10.00	U	1.00	U	0.19	U	10.00	U	1.00	U	0.19	U	50.00	U	1.00	U	0.19	U
Bromomethane	11	35	35	10.00	U	0.49	U	10.00	U	0.49	U	10.00	U	1.00	U	0.49	U	10.00	U	1.00	U	0.49	U	50.00	U	1.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	10.00	U	0.48	U	10.00	U	2.00	U	10.00	U	5.00	UR	0.48	U	10.00	U	5.00	UR	0.53	U	50.00	U	5.00	UJ	12.00	U
Carbon disulfide	760	110	110	10.00	U	0.72	U	10.00	U	0.72	U	10.00	U	1.00	U	0.72	U	10.00	U	1.00	U	0.72	U	50.00	UJ	1.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U
Chlorobenzene	100	17	17	10.00	U	0.10	U	10.00	U	0.10	U	10.00	U	1.00	U	0.10	U	10.00	U	1.00	U	0.10	U	50.00	U	1.00	U	0.10	U
Chloroethane	13	NA	NA	10.00	U	0.86	U	10.00	U	0.86	U	10.00	U	1.00	U	0.86	U	10.00	U	1.00	U	0.86	U	50.00	U	**110.00**	D	**22.00**	
Chloroform	76	470.8	470.8	10.00	U	0.22	U	10.00	U	0.19	U	10.00	U	1.00	U	0.78	U	3.00	J	1.00	U	0.12	U	50.00	U	5.00		0.29	U
Chloromethane	2.9	470.8	470.8	10.00	U	0.40	U	10.00	U	0.73	U	1.00	J	1.00	U	0.40	U	10.00	U	1.00	U	0.40	U	50.00	UJ	1.00	U	0.40	U
Dibromochloromethane	0.5	34	34	10.00	U	0.08	U	10.00	U	0.08	U	10.00	U	1.00	U	0.08	U	10.00	U	1.00	U	0.08	U	50.00	U	1.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	1.00	J	0.12	U	10.00	U	0.12	U	10.00	U	1.00	U	0.12	J	10.00	U	1.00	U	0.12	U	**900.00**	D	**1400.00**	D	**180.00**	
1,2-Dichloroethane	3	40	40	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	1.00	U	0.18	U	10.00	U	1.00	U	0.18	U	50.00	U	1.00	U	0.29	J
1,1-Dichloroethene	7	3.2	3.2	10.00	U	0.31	U	10.00	U	0.31	U	10.00	U	1.00	U	0.31	U	10.00	U	1.00	U	0.31	U	**170.00**		**68.00**	D	2.00	
cis-1,2-Dichloroethene	70	NA	NA	na		0.16	U	na		0.16	U	na		1.00	U	7.90		na		1.00	U	0.72	J	na		7.00		16.00	
trans-1,2-Dichloroethene	100	11000	11000	na		0.36	U	na		0.36	U	na		1.00	U	0.36	U	na		1.00	U	0.36	U	na		1.00	U	0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	10.00	U	na		10.00	U	na		10.00	U	na		na		10.00	U	na		na		50.00	U	na		na	
1,2-Dichloropropane	5	16	16	10.00	U	0.17	U	10.00	U	0.17	U	10.00	U	1.00	U	0.17	U	10.00	U	1.00	U	0.17	U	50.00	U	1.00	U	0.17	U
cis-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.12	U	10.00	U	0.12	U	10.00	U	1.00	U	0.12	U	10.00	U	1.00	U	0.12	U	50.00	U	1.00	U	0.12	U
trans-1,3-Dichloropropene	0.4	12*	12*	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	1.00	U	0.15	U	10.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U
Ethylbenzene	30	610	610	1.00	J	0.67	J	10.00	U	0.11	U	10.00	U	1.00	U	6.00		10.00	U	1.00	U	0.11	U	50.00	U	1.00	U	0.11	U
2-Hexanone	300	NA	NA	10.00	U	0.29	U	10.00	U	0.29	U	10.00	U	5.00	U	1.60	J	10.00	U	5.00	U	0.29	U	50.00	U	5.00	U	2.20	J
Methylene chloride	5	1580	1580	10.00	U	0.61	U	10.00	U	0.61	U	10.00	U	2.00	U	0.61	U	10.00	U	2.00	U	0.61	U	50.00	U	2.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	10.00	U	0.27	U	10.00	U	0.41	U	10.00	U	5.00	U	0.27	U	10.00	U	5.00	U	0.27	U	50.00	U	5.00	U	0.27	U
Styrene	100	460	460	10.00	U	0.05	U	10.00	U	0.05	U	10.00	U	1.00	U	0.05	U	10.00	U	1.00	U	0.05	U	50.00	U	1.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	10.00	U	0.43	U	10.00	U	0.43	U	10.00	U	1.00	U	0.43	U	10.00	U	1.00	U	0.43	U	**10.00**	J	**13.00**		**4.20**	
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	10.00	U	0.17	U	10.00	U	0.17	U	10.00	U	0.20	U	0.17	U	10.00	U	0.20	U	0.17	U	50.00	U	0.20	U	0.17	U
1,1,1-Trichloroethane	200	270	270	10.00	U	0.07	U	4.00	J	0.07	U	10.00	U	1.00	U	0.07	U	10.00	U	1.00	U	0.07	U	**1400.00**	D	**2100.00**	D	35.00	
1,1,2-Trichloroethane	5	17	17	10.00	U	0.11	U	10.00	U	0.11	U	10.00	U	1.00	U	0.11	U	10.00	U	1.00	U	0.11	U	50.00	U	1.00	U	0.11	U
Trichloroethene	3	80.7	80.7	10.00	U	0.13	U	10.00	U	0.19	U	10.00	U	1.00	U	0.19	J	10.00	U	1.00	U	0.13	U	50.00	U	**3.00**		0.62	J
Toluene	40	480	480	10.00	U	0.07	U	10.00	U	0.18	U	10.00	U	1.00	U	0.07	U	10.00	U	1.00	U	0.09	U	50.00	U	1.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	10.00	U	0.13	U	10.00	U	0.13	U	10.00	U	1.00	U	**2.30**		10.00	U	1.00	U	0.19	J	50.00	U	1.00	U	0.33	J
Xylene (Total)	20	370	370	3.00	J	1.10	J	10.00	U	0.28	U	10.00	U	1.00	U	1.10	J	10.00	U	1.00	U	0.28	U	50.00	U	8.00		0.28	U

Notes:
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GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->				30GS27						30GS28						30GS33				30GS46						30GS101			
Florida CTLs (ppb)				1993		1995		2003		1993		1995		2003		1995		2003		1993		1995		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	100.00	U	5.00	U	8.90	U	50.00	U	5.00	U	2.30	U	5.00	U	5.00	U	20.00	U	5.00	U	11.00	U	10.00	U	14.00	U
Benzene	1	71.28	71.28	100.00	U	1.00	U	0.12	U	50.00	U	1.00	U	0.10	U	1.00	U	0.10	U	20.00	U	1.00	U	0.15	U	**1.00**	J	0.11	U
Bromodichloromethane	0.6	22	22	100.00	U	0.60	U	0.18	U	50.00	U	0.60	U	0.18	U	0.60	U	0.18	U	20.00	U	0.60	U	0.18	U	10.00	U	0.18	U
Bromoform	4.8	360	360	100.00	U	1.00	U	0.19	U	50.00	U	1.00	U	0.19	U	1.00	U	0.19	U	20.00	U	1.00	U	0.19	U	10.00	U	0.19	U
Bromomethane	11	35	35	100.00	U	1.00	UJ	0.49	U	50.00	U	1.00	UJ	0.49	U	1.00	U	0.49	U	20.00	U	1.00	U	0.49	U	10.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	100.00	U	5.00	U	1.20	U	50.00	U	5.00	U	0.48	U	5.00	U	0.48	U	20.00	U	5.00	UJ	5.10	U	10.00	U	1.20	U
Carbon disulfide	760	110	110	100.00	U	1.00	U	0.72	U	50.00	UJ	1.00	U	0.72	U	1.00	U	0.72	U	20.00	U	1.00	U	0.72	U	10.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	100.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U	1.00	U	0.15	U	20.00	U	1.00	U	0.15	U	10.00	U	0.15	U
Chlorobenzene	100	17	17	100.00	U	1.00	U	0.10	U	50.00	U	1.00	U	0.57	J	1.00	U	0.10	U	20.00	U	1.00	U	0.10	U	10.00	U	0.10	U
Chloroethane	13	NA	NA	100.00	U	**520.00**	D	0.86	U	50.00	U	**580.00**	D	0.86	U	1.00	U	0.86	U	20.00	U	1.00	U	0.86	U	10.00	U	0.86	U
Chloroform	76	470.8	470.8	100.00	U	1.00	U	0.26	U	50.00	U	1.00	U	0.12	U	0.50	J	0.12	U	20.00	U	1.00	U	0.12	U	10.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	100.00	U	1.00	U	0.40	U	50.00	UJ	1.00	U	0.40	U	1.00	U	0.40	U	20.00	U	1.00	U	0.40	U	10.00	U	0.40	U
Dibromochloromethane	0.5	34	34	100.00	U	1.00	U	0.08	U	50.00	U	1.00	U	0.08	U	1.00	U	0.08	U	20.00	U	1.00	U	0.08	U	10.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	45.00	J	**4300.00**	D	1.60		**380.00**		**2400.00**	D	7.10		2.00		0.12	U	18.00	J	8.00		0.25	J	10.00	U	0.12	U
1,2-Dichloroethane	3	40	40	100.00	U	**200.00**	D	0.18	U	**6.00**	J	**220.00**	D	0.18	U	2.00		0.18	U	20.00	U	1.00	U	0.18	U	10.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	**510.00**		**240.00**	D	1.50		**220.00**		**130.00**	D	0.31	U	0.30	J	0.31	U	20.00	U	1.00	U	0.31	U	10.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		200.00	UD	1.90		na		**120.00**	D	12.00		1.00	U	0.16	U	na		**190.00**	D	39.00		na		0.16	U
trans-1,2-Dichloroethene	100	11000	11000	na		1.00	U	0.36	U	na		1.00	U	0.36	U	1.00	U	0.36	U	na		1.00	U	0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	15.00	J	na		na		210.00		na		na		na		na		220.00		na		na		10.00	U	na	
1,2-Dichloropropane	5	16	16	100.00	U	1.00	U	0.17	U	50.00	U	1.00	U	0.17	U	1.00	U	0.17	U	20.00	U	1.00	U	0.17	U	10.00	U	0.17	U
cis-1,3-Dichloropropene	0.4	12*	12*	100.00	U	1.00	U	0.12	U	50.00	U	1.00	U	0.12	U	1.00	U	0.12	U	20.00	U	1.00	U	0.12	U	10.00	U	0.12	U
trans-1,3-Dichloropropene	0.4	12*	12*	100.00	U	1.00	U	0.15	U	50.00	U	1.00	U	0.15	U	1.00	U	0.15	U	20.00	U	1.00	U	0.15	U	10.00	U	0.15	U
Ethylbenzene	30	610	610	100.00	U	1.00	U	0.11	U	50.00	U	1.00	U	0.12	J	1.00	U	0.11	U	20.00	U	1.00	U	3.50		5.00	J	0.11	U
2-Hexanone	300	NA	NA	100.00	U	5.00	U	0.29	U	50.00	U	5.00	U	0.29	U	5.00	U	0.29	U	20.00	U	5.00	U	4.60	J	10.00	U	0.29	U
Methylene chloride	5	1580	1580	100.00	U	3.00		0.61	U	50.00	U	2.00	U	0.61	U	2.00	U	0.61	U	20.00	U	2.00	U	0.61	U	10.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	100.00	U	5.00	U	0.27	U	50.00	U	5.00	U	0.27	U	5.00	U	0.27	U	20.00	U	5.00	U	2.40	J	10.00	U	0.27	U
Styrene	100	460	460	100.00	U	1.00	U	0.13	U	50.00	U	1.00	U	0.05	U	1.00	U	0.05	U	20.00	U	1.00	U	0.05	U	10.00	U	0.19	U
Tetrachloroethene	3	8.85	8.85	**11.00**	J	**12.00**		0.73	J	**310.00**		**10.00**		**6.40**		1.00		2.60		**200.00**		**1100.00**	D	**35.00**		10.00	U	0.43	U
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	100.00	U	0.20	U	0.17	U	50.00	U	0.20	U	0.17	U	0.20	U	0.17	U	20.00	U	0.20	U	0.17	U	10.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	**1300.00**		**1700.00**	D	0.63	J	**1300.00**	D	**2000.00**	D	1.50		14.00		2.10		**220.00**		49.00	DJ	0.28	J	10.00	U	0.07	U
1,1,2-Trichloroethane	5	17	17	100.00	U	1.00	U	0.11	U	50.00	U	1.00	U	0.11	U	1.00	U	0.11	U	20.00	U	1.00	U	0.11	U	10.00	U	0.11	U
Trichloroethene	3	80.7	80.7	100.00	U	**3.00**		0.13	U	**36.00**	J	**5.00**		0.90	J	1.00		0.85	J	**4.00**	J	**58.00**	D	1.40		10.00	U	0.13	U
Toluene	40	480	480	100.00	U	1.00	U	0.14	U	50.00	U	0.20	J	0.07	U	1.00	U	0.07	U	20.00	U	1.00	U	0.27	U	2.00	J	0.11	U
Vinyl chloride	1	2.6	2.6	100.00	U	0.50	J	0.13	U	50.00	U	0.20	J	0.13	U	1.00	U	0.13	U	20.00	U	1.00	U	0.13	U	10.00	U	0.13	U
Xylene (Total)	20	370	370	100.00	U	0.80	J	0.28	U	50.00	U	1.00	U	0.28	U	1.00	U	0.28	U	6.00	J	10.00		2.60		**21.00**		0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->				30GS111						30GS113				30GS123				30GS126				30GS146			
Florida CTLs (ppb)				1993		1995		2003		1993		2003		1993		2003		1993		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	21.00	J	5.00	U	4.60	U	10.00	UJ	11.00	U	10.00	U	26.00	U	10.00	U	3.00	U	10.00	U	2.80	U
Benzene	1	71.28	71.28	100.00	U	1.00	U	**9.80**		10.00	U	0.14	U	10.00	U	0.44	U	10.00	U	0.10	U	10.00	U	0.10	U
Bromodichloromethane	0.6	22	22	100.00	U	0.60	U	0.36	U	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U
Bromoform	4.8	360	360	100.00	U	1.00	U	0.38	U	10.00	U	0.19	U	10.00	U	0.55	J	10.00	U	0.19	U	10.00	U	0.19	U
Bromomethane	11	35	35	100.00	U	1.00	U	0.98	U	10.00	U	0.49	U	10.00	U	0.49	U	10.00	U	0.49	U	10.00	U	0.49	U
2 Butanone (MEK)	4600	120000	120000	100.00	U	5.00	UJ	0.96	U	10.00	UJ	2.20	U	10.00	U	19.00	U	10.00	U	0.61	U	10.00	U	0.76	U
Carbon disulfide	760	110	110	100.00	U	1.00	U	1.40	U	10.00	U	0.72	U	10.00	U	0.72	U	10.00	U	0.72	U	10.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	100.00	U	1.00	U	0.30	U	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U
Chlorobenzene	100	17	17	**720.00**		19.00	J	**830.00**	D	3.00	J	0.10	U	25.00		0.10	U	3.00	J	0.10	U	10.00	U	0.10	U
Chloroethane	13	NA	NA	100.00	U	1.00	U	**32.00**		10.00	U	0.86	U	10.00	U	0.86	U	10.00	U	0.86	U	10.00	U	0.86	U
Chloroform	76	470.8	470.8	100.00	U	1.00	U	0.24	U	10.00	U	0.12	U	10.00	U	0.35	U	10.00	U	2.20		2.00	J	1.60	
Chloromethane	2.9	470.8	470.8	100.00	U	1.00	U	0.80	U	10.00	U	0.40	U	10.00	U	0.40	U	10.00	U	0.40	U	10.00	U	0.40	U
Dibromochloromethane	0.5	34	34	100.00	U	1.00	U	0.16	U	10.00	U	0.08	U	10.00	U	0.08	U	10.00	U	0.08	U	10.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	100.00	U	1.00	U	0.24	U	10.00	U	0.12	U	10.00	U	0.34	U	10.00	U	0.12	U	10.00	U	16.00	
1,2-Dichloroethane	3	40	40	100.00	U	1.00	U	0.36	U	10.00	U	0.18	U	10.00	U	0.22	J	10.00	U	0.18	U	10.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	100.00	U	1.00	U	0.62	U	10.00	U	0.31	U	10.00	U	0.78	J	10.00	U	0.31	U	10.00	U	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		1.00	U	0.32	U	na		0.16	U	na		0.47	J	na		0.16	U	na		0.98	J
trans-1,2-Dichloroethene	100	11000	11000	na		1.00	U	0.72	U	na		0.36	U	na		0.42	J	na		0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	100.00	U	na		na		10.00	U	na		10.00	U	na		10.00	U	na		10.00	U	na	
1,2-Dichloropropane	5	16	16	100.00	U	1.00	U	0.34	U	10.00	U	0.17	U	10.00	U	0.26	J	10.00	U	0.17	U	10.00	U	0.17	U
cis-1,3-Dichloropropene	0.4	12*	12*	100.00	U	1.00	U	0.24	U	10.00	U	0.12	U	10.00	U	0.24	J	10.00	U	0.12	U	10.00	U	0.12	U
trans-1,3-Dichloropropene	0.4	12*	12*	100.00	U	1.00	U	0.30	U	10.00	U	0.15	U	10.00	U	0.23	J	10.00	U	0.15	U	10.00	U	0.15	U
Ethylbenzene	30	610	610	100.00	U	1.00	U	0.22	U	1.00	J	0.11	U	10.00	U	0.40	U	1.00	J	0.11	U	10.00	U	0.11	U
2-Hexanone	300	NA	NA	100.00	U	5.00	U	0.58	U	10.00	UJ	0.29	U	10.00	U	9.00	J	10.00	U	0.29	U	10.00	U	0.29	U
Methylene chloride	5	1580	1580	100.00	U	2.00	U	1.20	U	10.00	U	0.61	U	10.00	U	0.63	J	10.00	U	0.61	U	10.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	100.00	U	5.00	U	0.54	U	10.00	UJ	0.27	U	10.00	U	7.50	J	10.00	U	0.27	U	10.00	U	0.27	U
Styrene	100	460	460	100.00	U	1.00	U	0.10	U	10.00	U	0.05	U	10.00	U	0.37	U	10.00	U	0.05	U	10.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	100.00	U	0.70	J	0.86	U	10.00	U	0.43	U	10.00	U	0.43	U	10.00	U	0.43	U	10.00	U	0.50	J
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	100.00	U	0.20	U	0.34	U	10.00	UJ	0.17	U	10.00	U	0.17	U	10.00	UJ	0.17	U	10.00	UJ	0.17	U
1,1,1-Trichloroethane	200	270	270	100.00	U	1.00	U	0.13	U	10.00	U	0.07	U	10.00	U	0.30	J	10.00	U	0.07	U	2.00	J	0.07	U
1,1,2-Trichloroethane	5	17	17	100.00	U	1.00	U	0.22	U	10.00	U	0.11	U	10.00	U	0.36	J	10.00	U	0.11	U	10.00	U	0.11	U
Trichloroethene	3	80.7	80.7	100.00	U	1.00	U	0.26	U	10.00	U	0.13	U	10.00	U	0.85	J	10.00	U	0.13	U	1.00	J	0.15	U
Toluene	40	480	480	100.00	U	1.00	U	0.73	U	10.00	U	0.12	U	10.00	U	0.63	U	10.00	U	0.07	U	10.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	100.00	U	1.00	U	0.26	U	10.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U
Xylene (Total)	20	370	370	100.00	U	1.00	U	0.56	U	6.00	J	0.28	U	10.00	U	0.42	U	5.00	J	0.28	U	1.00	J	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

WELL ID ->				30GS162						30GS170				30GS029 (30GS174)			
Florida CTLs (ppb)				1993		1995		2003		1993		2003		1993		2003	
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT	
Acetone	760	1700	1700	50.00	U	5.00	UJ	2.30	U	43.00		5.90	U	**160.00**		2.30	U
Benzene	1	71.28	71.28	50.00	U	1.00	U	0.10	U	**2.00**	J	0.10	U	**3.00**	J	0.10	U
Bromodichloromethane	0.6	22	22	50.00	U	0.60	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U
Bromoform	4.8	360	360	50.00	U	1.00	U	0.19	U	10.00	U	0.19	U	10.00	U	0.19	U
Bromomethane	11	35	35	50.00	U	1.00	U	0.49	U	10.00	U	0.49	U	10.00	U	0.49	U
2-Butanone (MEK)	4600	120000	120000	50.00	U	5.00	UJ	0.66	U	10.00	U	0.48	U	10.00	U	0.60	U
Carbon disulfide	760	110	110	50.00	U	1.00	U	0.72	U	10.00	U	0.72	U	10.00	U	0.72	U
Carbon tetrachloride	3	4.42	4.42	50.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U
Chlorobenzene	100	17	17	50.00	U	1.00	U	0.10	U	10.00	U	0.10	U	10.00	U	0.10	U
Chloroethane	13	NA	NA	50.00	U	1.00	U	0.86	U	10.00	U	0.86	U	10.00	U	0.86	U
Chloroform	76	470.8	470.8	50.00	U	2.00		2.30		1.00	J	9.60		10.00	U	0.12	U
Chloromethane	2.9	470.8	470.8	50.00	U	1.00	U	0.40	U	10.00	U	0.40	U	10.00	U	0.40	U
Dibromochloromethane	0.5	34	34	50.00	U	1.00	U	0.08	U	10.00	U	0.08	U	10.00	U	0.08	U
1,1-Dichloroethane	76	NA	NA	28.00	J	8.00		1.20		9.00	J	0.13	J	11.00		0.41	J
1,2-Dichloroethane	3	40	40	50.00	U	1.00	U	0.18	U	10.00	U	0.18	U	10.00	U	0.18	U
1,1-Dichloroethene	7	3.2	3.2	**100.00**		0.70	J	0.31	U	**7.00**	J	0.31	U	2.00	J	0.31	U
cis-1,2-Dichloroethene	70	NA	NA	na		1.00	U	0.63	J	na		0.16	U	na		0.16	U
trans-1,2-Dichloroethene	100	11000	11000	na		1.00	U	0.36	U	na		0.36	U	na		0.36	U
1,2-Dichloroethene (total)	NA	7000	7000	50.00	U	na		na		10.00	U	na		10.00	U	na	
1,2-Dichloropropane	5	16	16	50.00	U	1.00	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U
cis-1,3-Dichloropropene	0.4	12*	12*	50.00	U	1.00	U	0.12	U	10.00	U	0.12	U	10.00	U	0.12	U
trans-1,3-Dichloropropene	0.4	12*	12*	50.00	U	1.00	U	0.15	U	10.00	U	0.15	U	10.00	U	0.15	U
Ethylbenzene	30	610	610	50.00	U	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.11	U
2-Hexanone	300	NA	NA	50.00	U	5.00	UJ	0.29	U	10.00	U	0.29	U	10.00	U	0.29	U
Methylene chloride	5	1580	1580	50.00	U	1.00	J	0.61	U	10.00	U	0.61	U	10.00	U	0.61	U
4-Methyl-2-Pentanone (MIBK)	610	23000	23000	50.00	U	5.00	UJ	0.27	U	10.00	U	0.27	U	10.00	U	0.27	U
Styrene	100	460	460	50.00	U	1.00	U	0.10	U	10.00	U	0.14	U	10.00	U	0.05	U
Tetrachloroethene	3	8.85	8.85	50.00	U	0.30	J	0.43	U	10.00	U	0.43	U	1.00	J	1.00	
1,1,2,2-Tetrachloroethane	0.2	10.8	NA	50.00	U	0.20	U	0.17	U	10.00	U	0.17	U	10.00	U	0.17	U
1,1,1-Trichloroethane	200	270	270	**260.00**		3.00		0.07	U	33.00		0.07	U	26.00		1.20	
1,1,2-Trichloroethane	5	17	17	50.00	U	1.00	U	0.11	U	10.00	U	0.11	U	10.00	U	0.11	U
Trichloroethene	3	80.7	80.7	50.00	U	1.00	U	0.13	U	2.00	J	0.20	J	1.00	J	0.27	J
Toluene	40	480	480	50.00	U	1.00	U	0.07	U	10.00	U	0.07	U	10.00	U	0.07	U
Vinyl chloride	1	2.6	2.6	50.00	U	1.00	U	0.13	U	10.00	U	0.13	U	10.00	U	0.13	U
Xylene (Total)	20	370	370	50.00	U	1.00	U	0.28	U	10.00	U	0.28	U	10.00	U	0.28	U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

Table 18 Historical Trends in VOA Concentrations in Groundwater				
Well	**1993 Exceedances**	**1995 Exceedances**	**2003 Exceedances**	**Comments**
30GI19	1	Not analyzed	0	Concentration decreasing
30GS111	1	0	3	Concentrations increasing, benzene increases
30GI111	3	1	3	Concentrations decreasing, benzene increases
30GS03	1	0	0	Concentrations decreasing
30GS06	4	0	3	Ethybenzene increases; benzene, toluene and xylene decrease
30GS18	0	0	1	Concentrations stable
30GS22	1	1	3	Concentrations increasing
30GS27	3	7	0	Significant Concentration decreases
30GS28	6	8	1	Significant Concentration decreases
30GI32A	2	Not analyzed	0	Significant Concentrations decrease
30GS46	3	3	1	Concentrations decreasing
30GS101	1	Not analyzed	0	Concentrations decreasing
30GS162	2	0	0	Concentrations decreasing
30GI164	4	Not analyzed	0	Concentrations decreasing
30GS170	1	Not analyzed	0	Concentrations decreasing
30GI170	2	Not analyzed	3	Concentrations increasing
111GI02	1	1	2	Concentrations increasing
11GI10	1	Not analyzed	1	1,2-dichloroethene decreases
11GI12	1	1	3	Concentrations increasing
11GI14	1	2	3	Concentrations increasing
11GM28	1	Not analyzed	1	Benzene decreases
11GM47	3	4	4	Benzene increases; ethylbenzene is stable; VC and xylene decrease
11GM52	2	5	3	Concentrations decreasing
25GI01	1	1	1	Concentrations decreasing
27GI04	1	0	1	Concentrations decreasing
27GI06	0	Not analyzed	1	Concentrations increasing
27GS04	2	1	1	Concentrations decreasing
27GS11	5	2	1	Concentrations decreasing
27GS18	4	Not analyzed	2	Concentrations decreasing
27GS19	6	4	5	Cis 12 DCE, PCE, and xylene increasing; Ethylbenzene stable; TCE decreasing

Table 19 NA Parameters, Analysis Methods, and Rationale		
Parameter	**Method**	**Rationale**
Oxidation reduction potential (ORP) (millivolts, mV)	Field, direct reading from Horiba U-22	Provides general indicator of aquifer redox; higher positive values indicate oxidizing conditions whereas higher negative values indicate reducing conditions
Nitrate (mg/L)	Field, Hach method NitraVer	Redox couple. Decreasing concentrations indicate denitrification is occurring as nitrate is utilized as an electron acceptor, producing nitrite, ammonia, or N_2.
Dissolved oxygen (mg/L)	Field, Winkler titration	Primary indicator of aquifer redox; concentrations less than 0.5 mg/L indicate anaerobic conditions
Hydrogen (nanomoles/L, nM)	Laboratory	An overall indicator of microbial activity and therefore biodegradation. Concentrations have been shown to correspond to predominant aquifer redox processes as follows: <0.1 nM (denitrification), 0.2-0.8 nM (ferric iron reduction), 1-4 nM (sulfate reduction), and >5 nM (methanogenesis)
Nitrogen	Laboratory	Redox couple. Increasing concentrations indicate denitrification is occurring via reduction of nitrate.
Carbon dioxide	Laboratory	Redox couple. Decreasing concentrations indicate methanogenesis (methane production) is occurring as CO_2 is utilized as an electron acceptor, producing methane.
Methane	Laboratory, Method 8015M	Redox couple. Increasing concentrations indicate methanogenesis is occurring as CO_2 is utilized as an electron acceptor, producing methane.
Iron (II)	Field, Hach Method 8146 (1,10 phenathroline)	Redox couple. Increasing concentrations indicate ferric iron reduction is occurring as Fe^{3+} is utilized as an electron acceptor, producing ferrous iron (Fe II).
Sulfate	Field, Hach method 8051 (SulfaVer)	Redox couple. Decreasing concentrations indicate sulfate reduction is occurring as SO_4 is utilized as an electron acceptor, producing sulfide.
Sulfide	Field, 8131 (methylene blue)	Redox couple. Increasing concentrations indicate sulfate reduction is occurring as SO_4 is utilized as an electron acceptor, producing sulfide.
Chloride	Field, silver nitrate titration	Increasing concentrations indicate reductive dechlorination is occurring as chloride atoms are liberated during biodegradation of chlorinated ethenes/ethanes.
Alkalinity	Field, phenolphthalein method	An overall indicator of microbial activity. Concentrations increase as rock/aquifer material dissolves under the increased production of CO_2 from microbial metabolism.

Table 20
Preliminary Natural Attenuation Screening Rankings, 2003 RI Addendum, OU2, NASP

			Flowpath #1		Flowpath #2			Flowpath #3						bkgd	bkgd
			30GS22	30GS27	12GS01	11GS05	11GS47	2ZGI06	30GI170	30GS170	30GS123	11GS07	11GI08	30GI132A	30GS15
	Analyte	Units	U	D	U	M	D	U	D						
VOCs	Benzene	ug/L	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ug/L	ND	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ug/L	ND	ND	ND	ND	59	ND	ND	ND	ND	ND	ND	ND	ND
	Xylene	ug/L	ND	ND	ND	4.8	170	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND
	PCE	ug/L	4.2	0.73	ND	ND	ND	0.63	1	ND	ND	ND	ND	ND	ND
	TCE	ug/L	0.6	ND	0.14	ND	0.2	0.73	310	0.2	0.85	ND	ND	ND	ND
	cis-1,2-DCE	ug/L	16	1.9	ND	4.5	7.3	ND	100	ND	0.47	ND	ND	ND	ND
	trans-1,2-DCE	ug/L	ND	ND	ND	ND		ND	3.1	ND	0.42	ND	ND	ND	ND
	VC	ug/L	0.3	ND	ND	ND	12	ND	3.8	ND	ND	ND	ND	ND	ND
	1,1,1-TCA	ug/L	35	0.63	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND
	1,1 DCA	ug/L	180	1.6	ND	ND	ND	4.3	0.25	0.13	ND	ND	ND	ND	ND
	CA	ug/L	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-DCE	ug/L	2	1.5	ND	ND	ND	16	2.8	ND	0.78	ND	ND	0.35	ND
Dissolved Gases	Carbon Dioxide	mg/L	130	20	21	74	78	38	31	21	41	15	8	37	30
	Dissolved Oxygen	mg/L	0.00	1.72	2.65	0	0.12	0.5	0.22	1.88	0.10	0.42	0.6	0.78	3.02
	Hydrogen	nmol/L	1.10	0.90	0.48	0.69	2.80	0.67	0.81	0.54	1.1	0.83	0.40	0.91	0.9
	Nitrogen	mg/L	15	16	16	15	7.2	17	14	16	17	17	17	18	15
	Methane	mg/L	64	22	4.7	1400	8700	5	99	2.8	90	11	56	0.04	<0.02
Geochemical Parameters	pH	std units	6.26	6.16	6.80	5.47	5.71	5.85	5.03	6.57	5.87	6.36	6.75	5.65	6.31
	Redox Potential	mV	-180	292	137	-113	-	274	298	173	-112	0	0	277	153
	Alkalinity	mg/L	105	30	90	30	65	10	80	5	30	-	75	10	40
	Chloride	mg/L	25	20	20	30	15	30	35	40	50	-	1520	40	40
	Nitrate as N	mg/L	1.9	2.1	1.8	2.6	2.1	0.7	0.90	1.2	0.7	1	0.3	2.4	1.4
	Iron (II)	mg/L	0.4	0.2	0.0	1.1	1.1	0.46	1.4	0.1	0.2	0.6	0.41	0.02	0.0
	Sulfate	mg/L	22	23	77	44	3	16	22	0	43	28	16	26	-
	Sulfide	mg/L	1.3	0.016	0.002	0.077	ND	0.008	0.081	0.005	0.014	0.029	0.007	0.052	-
	Specific Conductivity	mmho/cm	0.30	0.09	0.20	0.12	0.09	0.14	0.12	0.24	0.18	0.24	3.52	0.15	0.20
	TDS	mg/L	0.20	0.00	0.13	0.08	0.06	-	-	0.15	0.12	0.05	2.34	0.00	0.13
	Temperature	°C	24.0	23.2	24.1	30.2	21.7	24.1	23.3	23.4	20.6	19.8	21.7	24.1	23.4
Preliminary Screening Ranking	*Dissolved Oxygen*	POINTS	3	0	0	3	3	0	3	0	3	3	0	0	0
	Nitrate as N		0	0	0	0	0	2	2	0	2	0	2	0	0
	Iron (II)		0	0	0	3	3	0	3	0	0	0	0	0	0
	Sulfate		0	0	0	0	2	2	0	2	0	0	2	0	0
	Sulfide		3	0	0	0	0	0	0	0	0	0	0	0	0
	Methane		0	0	0	3	3	0	0	0	0	0	0	0	0
	Redox Potential		2	0	0	2	0	0	0	0	2	1	1	0	0
	pH		0	0	0	0	0	0	0	0	0	0	0	0	0
	Temperature		1	1	1	1	1	1	1	1	1	0	1	1	1
	*Carbon Dioxide **		1	0	0	1	1	0	0	0	0	0	0	0	0
	*Alkalinity**		1	0	1	0	0	0	1	0	0	0	0	0	0
	Hydrogen		1	0	0	0	1	0	0	0	1	0	0	0	0
	*Chloride**		0	0	0	0	0	0	0	0	0	0	2	0	0
	BTEX		0	0	0	0	2	0	0	0	0	0	0	0	0
	TCE		2	2	0	2	0	2	2	0	2	2	2	2	2
	DCE		2	2	0	2	2	0	2	0	2	0	0	2	0
	VC		2	2	2	2	2	2	2	2	2	2	2	2	2
	1,1-DCA		2	2	2	2	2	2	2	2	2	2	2	2	2
	CA		2	0	0	0	0	0	0	0	0	0	0	0	0
	Total Points		**22**	**9**	**6**	**21**	**22**	**11**	**18**	**7**	**17**	**10**	**14**	**9**	**7**
	NA evidence		**S**	**L**	**L**	**S**	**S**	**L**	**A**	**L**	**A**	**L**	**L**	**L**	**L**

Notes:

GCTL exceedances
* compared to bkgd conc at
30GS15 (shallow) or 30GI32A (int)
U= upgradient location
M= midgradient locatin
D=downgradient location
S = Strong Potential
A = Adequate Potential
L = Limited Potential
I = Inadequate Potential
ND = Not detected
- ' = no results available

	background values*			
	30GS15	*2X*	30GI32A	*2X*
Cl	40	80	40	80
CO2	30	60	37	74
ALK	40	80	10	20

Table 21 NA Ranking at Locations with GCTL Exceedances				
	11GS47	**27GI06**	**30GS22**	**30GI170**
Overall ranking	**Adequate**	**Limited**	**Strong**	**Adequate**
VOC GCTL exceedances	Benzene Ethylbenzene Xylenes Vinyl chloride	1,1-DCA	PCE 1,1-DCA Chloroethane	TCE cis-1,2-DCE Vinyl chloride
Ethane parent compound	None	None	1,1,1-TCA	None
Ethane daughter compounds	None	1,1-DCA 1,1-DCE	1,1-DCA Chloroethane	None
Ethene parent compound	None	PCE & TCE < 1 ppb each	PCE	TCE
Ethene daughter compounds	cDCE VC	1,1-DCE	cDCE 1,1-DCE VC < 1 ppb	cDCE tDCE VC 1,1-DCE
Additional carbon source	BTEX	None	None	None
Redox (ORP)	Not collected	Aerobic (224)	Anaerobic (-180)	Aerobic (298)
H_2 redox	Sulfate reduction	Fe (III) reduction	Fe (III) reduction	Fe (III) reduction
Electron acceptors: DO	<0.5 – Anaerobic	0.5 – anaerobic	0 – anaerobic	<0.5 – anaerobic
NO_3	above bkgd	Below bkgd	above bkgd	below bkgd
Fe (II)	highest conc.	low (low total Fe)	Low	High
SO4	Low	Low	Moderate	Moderate
S-	ND	Low	Highest	2nd highest
CH_4	Highest	Low	Moderate	Moderate
CO_2	> 2X bkgd	< 2X bkgd	> 2X bkgd	< 2X bkgd

Note:
Bkgd refers to background concentrations for either shallow or intermediate groundwater, shown previously in Table 20.

Table 22 Total Chloride Determination at 30GS22					
	Conc. (mg/L)	**Molecular Wt (g)**	**Chloride Mass (g)**	**Cl to VOC Mass Ratio (Cl per 1 gm VOC)**	**Organic Cl (mg/L)**
PCE	0.0042	165.83	141.81	0.86	0.003612
TCE	0.0006	131.39	106.36	0.81	0.000486
cDCE	0.016	96.95	70.91	0.73	0.01168
VC	0.0003	62.51	35.453	0.57	0.000171
TCA	0.035	133.41	106.36	0.8	0.028
1,1-DCA	0.18	98.97	70.91	0.72	0.1296
CA	0.022	64.53	35.453	0.55	0.0121
1,1-DCE	0.002	96.95	70.91	0.73	0.00146
Subtotal					0.187109
+ CL (mg/L)					25
TOTAL CL (mg/L)					25.19

Table 23 Normalized VOC Concentrations at Downgradient Well 30GS27			
	C_B	T_A/T_B	$C_{B,COR}$
VOC	(μg/L)	—	(ug/L)
PCE	0.73	1.26	0.92
cDCE	1.9	1.26	2.39
TCA	0.63	1.26	0.79
DCA	1.6	1.26	2.02

Table 24 Estimates of First Order Biodegradation Decay Constants 30GS22-30GS27 Flowpath						
VOC	**K_{oc} (L/kg)**	**K_d (L/kg)**	**R Unitless**	**V_c (ft/d)**	**t (yr)**	**λ (1/yr)**
PCE	209	0.209	2.42	0.37	1.33	1.1
cDCE	49	0.049	1.33	0.68	0.73	2.6
TCA	183	0.183	2.24	0.40	1.23	3.1
DCA	33	0.033	1.22	0.74	0.67	6.7

Notes:

Koc = organic carbon partition coefficient, obtained from Technical Protocol at 25° C (approximate groundwater temperature during sampling)

Kd = distribution coefficient equal to Koc*foc where foc assumed as 0.001 (0.1%) (no data from RI available)

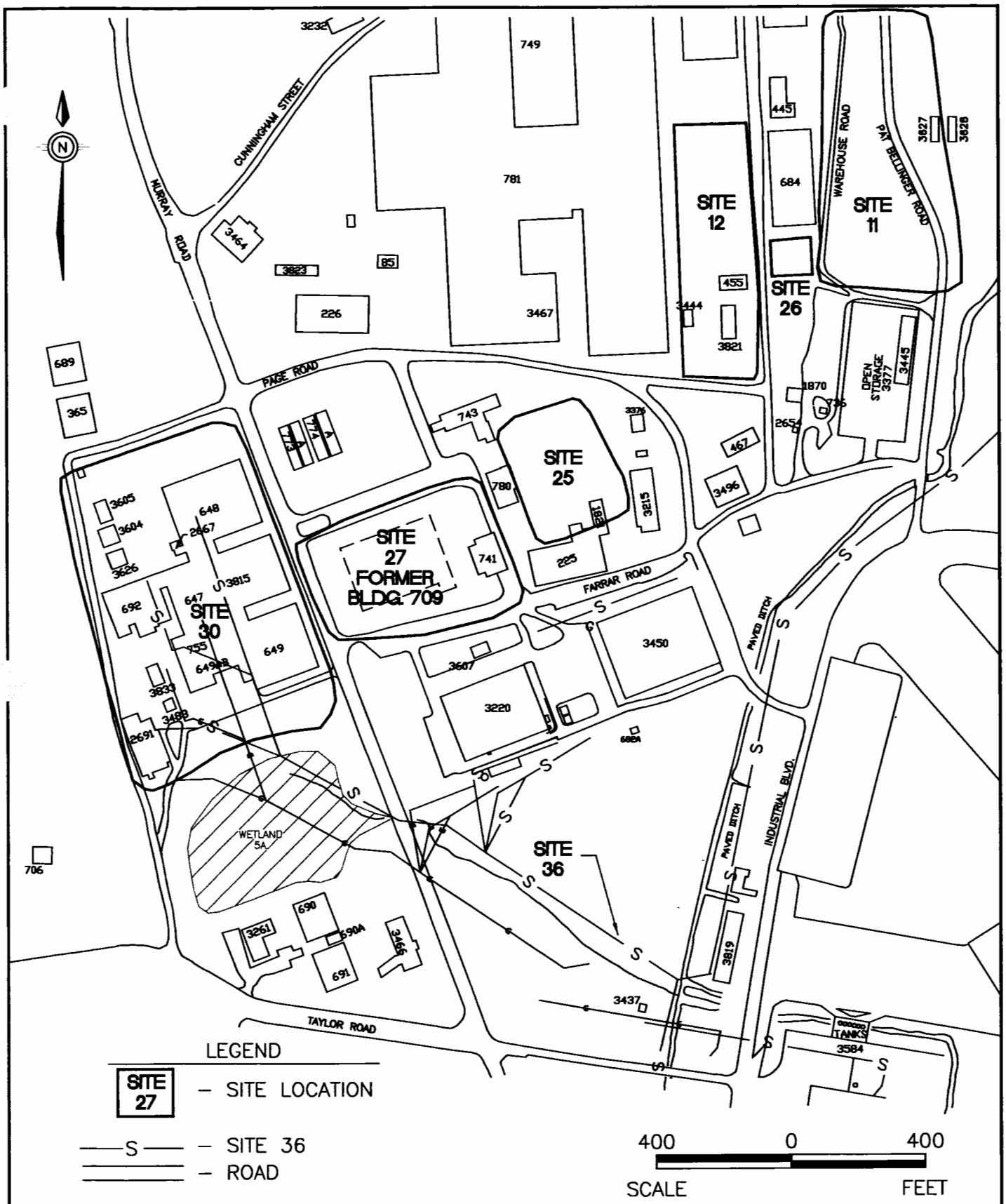
R = retardation factor, equal to 1+(bulk density/K_d)/n, where bulk density assumed as 1.7 g/cm^3 and n assumed as 25%, reasonable values for clean sand

Vc = ontaminant velocity, equal to seepage velocity divided by R; seepage velocity estimates obtained from OU-2 FS (EnSafe, 1999) for northern wave cut terrace (0.9 ft/day)

t = travel time, equal to x/Vc where x is the flowpath distance (180 ft)

λ = first order rate constant determined by equation (3), where C_A is the VOC concentration at the upgradient location, 30GS22.

Table 25 BTEX Assimilative Capacity at 11GS47 (mg/L)					
Parameter	**12GS01 (bkgd)**	**11GS47 (plume)**	**Difference**	**Multiplier**	**Capacity**
DO	2.65	0.12	2.53	0.97	2.45
NO_3	1.8	2.1	—	0.21	—
Fe II	0	1.1	1.1	0.05	0.055
SO_4	72	3	69	0.21	14.49
CH_4	4.7	8700	8695	1.28	11130
				SUM	*11147*



LEGEND

SITE 27 – SITE LOCATION

—S— – SITE 36

– ROAD

400 0 400

SCALE FEET

NAVFAC Naval Facilities Engineering Command SOUTHERN DIVISION

REMEDIAL INVESTIGATION ADDENDUM
OPERABLE UNIT 2
NAS PENSACOLA
PENSACOLA, FLORIDA

FIGURE 1
SITE AREA MAP

DATE: 07/29/04 | DWG NAME: 00590037R003

TS Trend Summaries

Table T-1: Metals Trends in Groundwater, Operable Unit 2 – NAS Pensacola			
Location	**Fewer or higher Number of exceedances?**	**Trend of number of exceedances 1993/95 to 2003**	**2003 exceedances concentrations up or down from 1993/95?**
11GI02	fewer	3 to 0	na
11GI04	fewer	3 to 0	na
11GI08	fewer	2 to 1	1 up
11GI10	higher	0 to 1	1 up
11GI14	fewer	1 to 0	na
11GS05	fewer	4 to 0	na
11GS07	fewer	3 to 2	2 up
11GS09	higher	1 to 2	2 up
11GS13	fewer	4 to 3	3 up
11GS15	fewer	2 to 1	1 up
11GS28	fewer	2 to 1	1 down
11GS47	higher	1 to 2	1 up, 1 down
12GS08	higher	1 to 2	2 up
12GS09	higher	0 to 2	2 up
25GS01	fewer	3 to 0	na
27GI02	fewer	5 to 1	1 down
27GS01	fewer	3 to 0	na
27GS02	fewer	2 to 0	na
27GS10	fewer	8 to 4	4 down
30GI19	fewer	1 to 0	na
30GI111	same	2 to 2	2 up
30GI126	fewer	2 to 0	na
30GS06	higher	2 to 3	3 up
30GS18	same	2 to 2	1 up, 1 down
30GS22	fewer	1 to 0	na
30GS27	higher	1 to 2	2 down
30GS28	higher	3 to 4	1 up, 3 down
30GS103	fewer	5 to 3	1 up, 2 down
30GS111	higher	0 to 1	1 up
30GS126	higher	0 to 2	1 up, 1 down
30GS170	higher	1 to 1	1 up
30GS029 (30GS174)	same	1 to 1	can't determine (ND)
TOTALS	**18 fewer; 11 higher; 2 same.**	**70 to 43**	**26 up; 16 down; 1 can't determine**

Notes:

na = not applicable (no 2003 exceedances)

can't determine = 1993/95 detection limits higher than CTL

Table T-2: SVOA Trends in Groundwater, Operable Unit 2 – NAS Pensacola			
Location	**Fewer or higher Number of exceedances?**	**Trend of number of exceedances 1993/95 to 2003**	**2003 exceedances concentrations up or down from 1993/95?**
11GS47	same	2 to 2	2 up
27GS18	same	2 to 2	1 up, 1 down
27GS19	fewer	4 to 2	2 up
27GS20	fewer	1 to 0	na
30GI111	same	2 to 2	2 down
30GMW03	fewer	1 to 0	na
30GS06	higher	4 to 6	3 up, 3 down
30GS22	higher	1 to 3	2 up, 1 can't determine
30GS46	fewer	12 to 0	na
30GS51	fewer	2 to 0	na
30GS111	higher	0 to 1	1 up
TOTALS	**5 fewer; 3 higher; 3 same.**	**18 to 18**	**11 up, 6 down, 1 can't determine**

Notes:

na = not applicable (no 2003 exceedances)

can't determine = parameter not analyzed for in 1993/95

Table T-3: VOA Trends in Groundwater, Operable Unit 2 – NAS Pensacola			
Location	**Fewer or higher Number of exceedances?**	**Trend of number of exceedances 1993/95 to 2003**	**2003 exceedances concentrations up or down from 1993/95?**
11GI02	higher	1 to 2	2 up
11GI10	same	1 to 1	1 down
11GI12	higher	1 to 3	3 up
11GI14	higher	1 to 3	2 up, 1 down
11GS05	fewer	1 to 0	na
11GS13	fewer	3 to 0	na
11GM28	fewer	2 to 1	can't determine (ND)
11GM47	higher	3 to 4	2 up, 2 down
11GM52	fewer	5 to 3	3 down
25GI01	same	1 to 1	1 down
25GI02	fewer	1 to 0	na
25GS029 (25GS10)	fewer	2 to 0	na
27GI02	fewer	3 to 0	na
27GI04	same	1 to 1	1 up
27GI06	higher	0 to 1	1 up
27GS02	fewer	1 to 0	na
27GS04	same	2 to 2	1 can't determine, 1 down
27GS10	fewer	3 to 0	na
27GS11	fewer	5 to 1	1 down
27GS18	fewer	4 to 2	2 down
27GS19	fewer	6 to 5	2 up, 3 down
27GS21	fewer	4 to 0	na
30GI19	fewer	1 to 0	na
30GI111	same	3 to 3	3 down
30GI164	fewer	4 to 0	na
30GI170	higher	2 to 3	2 up, 1 can't determine
30GI32A	fewer	2 to 0	na
30GS03	fewer	1 to 0	na
30GS06	fewer	5 to 3	1 up, 2 down
30GS22	fewer	6 to 3	3 down
30GS27	fewer	7 to 0	na
30GS28	fewer	8 to 1	1 down
39GS46	fewer	3 to 1	1 down
30GS101	fewer	2 to 0	na
30GS111	higher	1 to 2	1 up, 1 can't determine
30GS162	fewer	2 to 0	na
30GS170	fewer	1 to 0	na
30GS029 (30GS174)	fewer	2 to 0	na
TOTALS	**26 fewer; 7 higher; 5 same**	**101 to 46**	**17 up, 25 down, 4 can't determine**

Notes:

na = not applicable (no 2003 exceedances)

can't determine = 1993/95 detection limits lower than CTLs

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	NASP Ref	11GS07 1993 RESULT	11GS07 2003 RESULT	11GS15 1993 RESULT	11GS15 1995 RESULT	11GS15 2003 RESULT	12GS08 1995 RESULT	12GS08 2003 RESULT	12GS09 1995 RESULT	12GS09 2003 RESULT	27GS10 1993 RESULT	27GS10 1995 RESULT	27GS10 2003 RESULT
Cadmium	5	9.3*	9.3	3.4	**7**	**33**	4 J	<0.3 U	**13**	**9.6**	**17**	3.8 J	**8.5**	**19.6**	<4.7 U	**8**
Chromium	100	NA	NA	35										**5810**	**309**	**160**

Notes:
All results in ppb.
Italics indicate an exceedance of higher of GCTL or NASP Reference
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

Cadmium

	1993	1995	2003
GCTL	5	5	5
FSWCTL	9.3	9.3	9.3
MSWCTL	9.3	9.3	9.3
Reference	3.4	3.4	3.4

Chromium

	1993	1995	2003
GCTL	100	100	100
Reference	35	35	35

Table 4
Summary of Groundwater Metals, OU2, 2003 RI Addendum, NASP

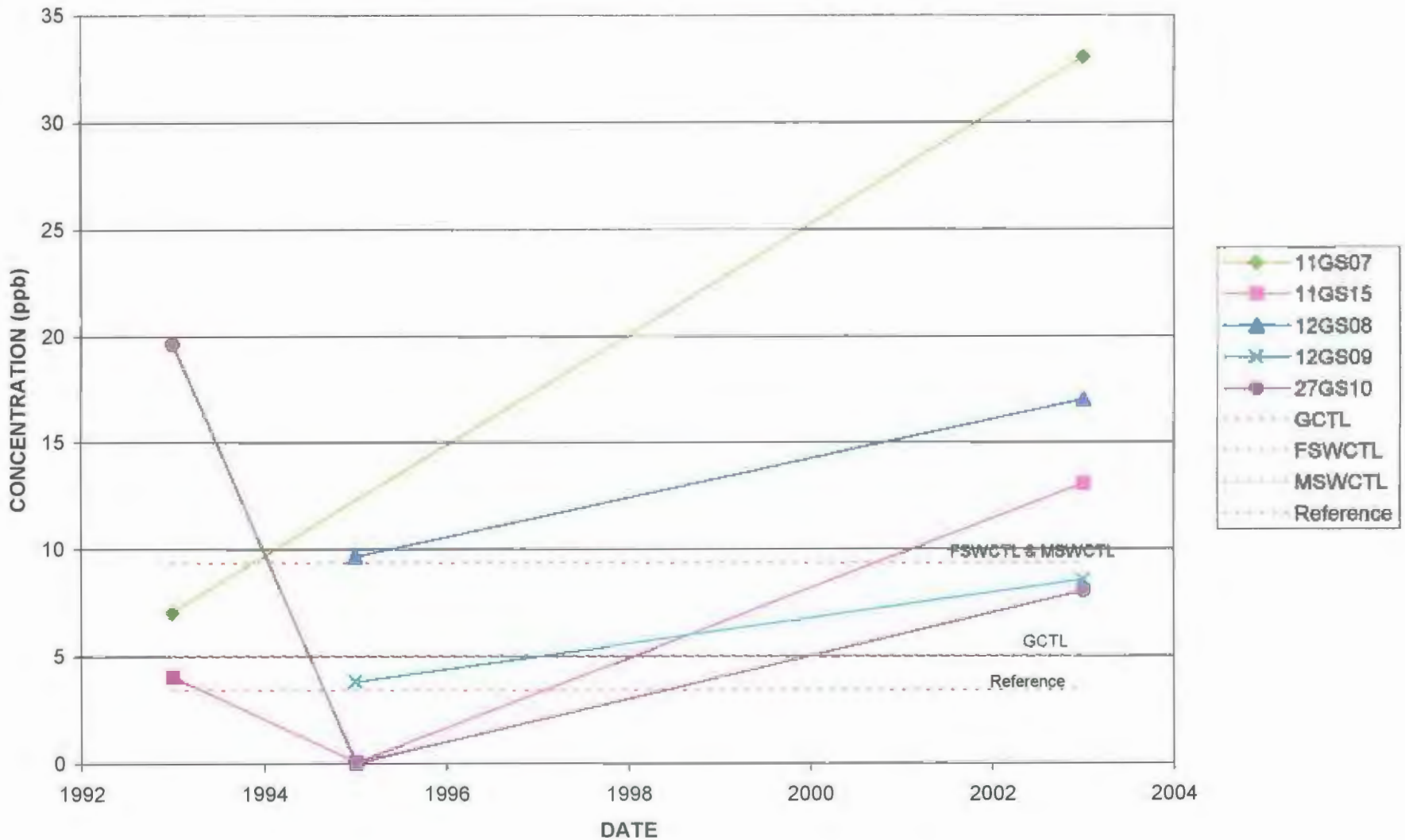
PARAMETER	Florida CTLs (ppb) GCTL	FSWCTL	MSWCTL	Well ID --> NASP Ref	30GS27 1993 RESULT	30GS27 1995 RESULT	30GS27 2003 RESULT	30GS28 1993 RESULT	30GS28 1995 RESULT	30GS28 2003 RESULT	30GS103 1993 RESULT	30GS103 1995 RESULT	30GS103 2003 RESULT	30GS126 1993 RESULT	30GS126 1995 RESULT	30GS126 2003 RESULT	30GS174 2003 RESULT
Cadmium	5	9.3*	9.3	3.4				**7.8**	**108**	**120**	<3 U	**5.1** J	1.8 J	<3 U	**21.8**	0.45 J	**14**
Chromium	100	NA	NA	35	**1380**	69.9	**180**	**715**	**418**	**250**							

Notes:
All results in ppb.
Italics indicate an exceedance of higher of GCTL or NASP Reference
U = not detected
J = detected below method detection limit and above instrument detection limit
NA = not applicable
na = not analyzed

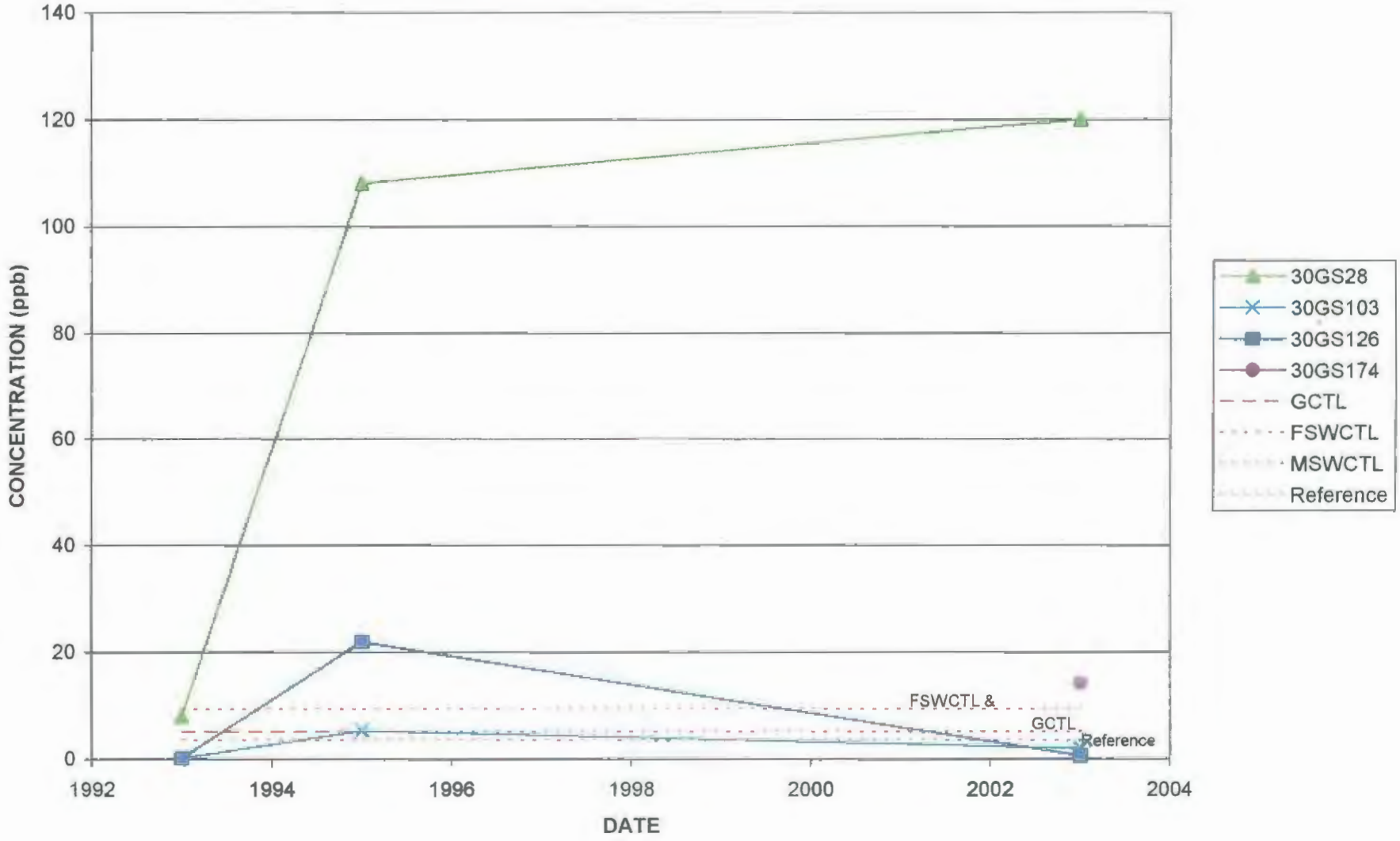
	Cadmium		
	1993	1995	2003
GCTL	5	5	5
FSWCTL	9.3	9.3	9.3
MSWCTL	9.3	9.3	9.3
Reference	3.4	3.4	3.4

	Chromium		
	1993	1995	2003
GCTL	100	100	100
Reference	35	35	35

TS-1: TREND SUMMARIES OF CADMIUM IN SELECTED WELLS



TS-2 TREND SUMMARIES OF CADMIUM IN SELECTED WELLS



TS-3: TREND SUMMARIES OF CHROMIUM IN SELECTED WELLS

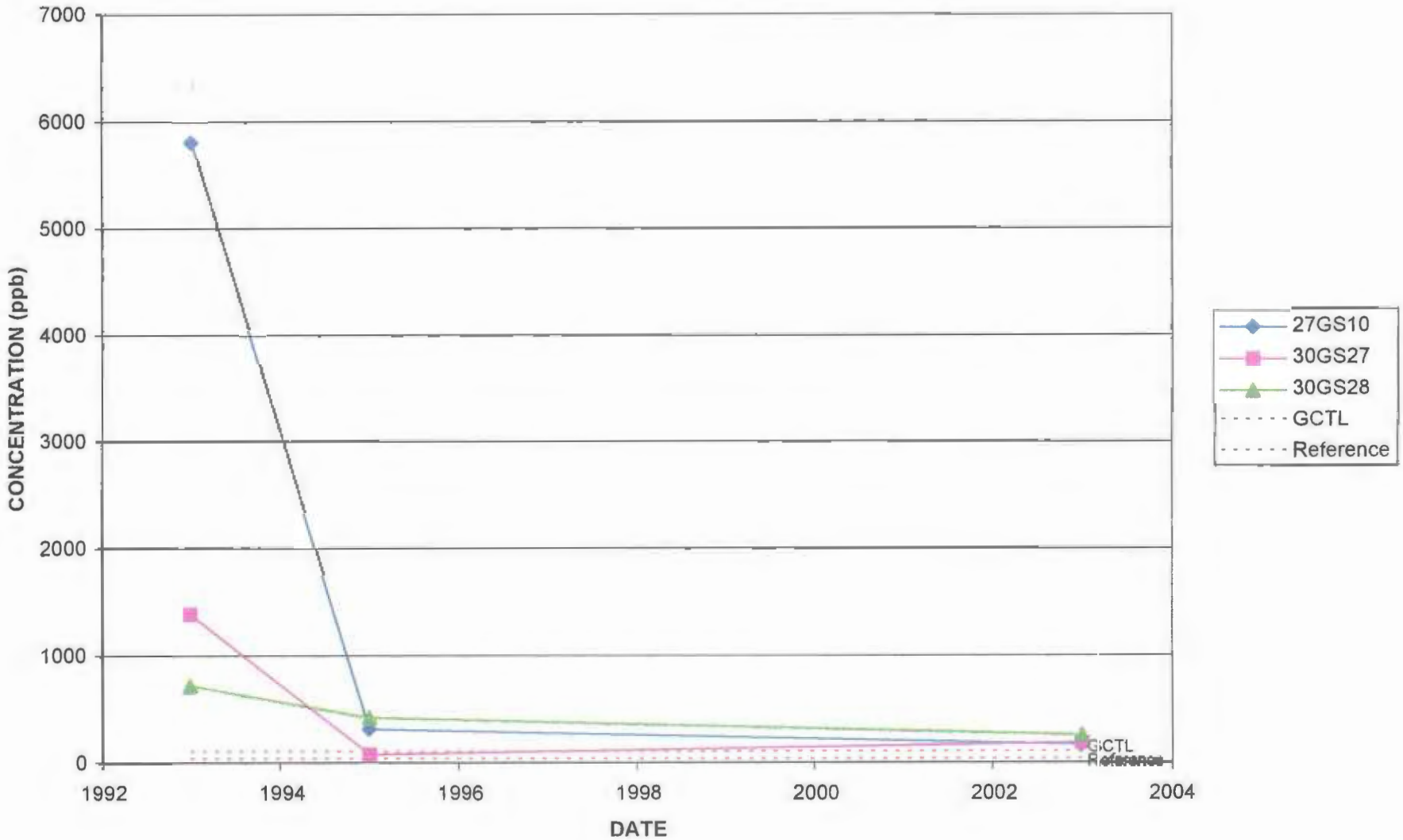
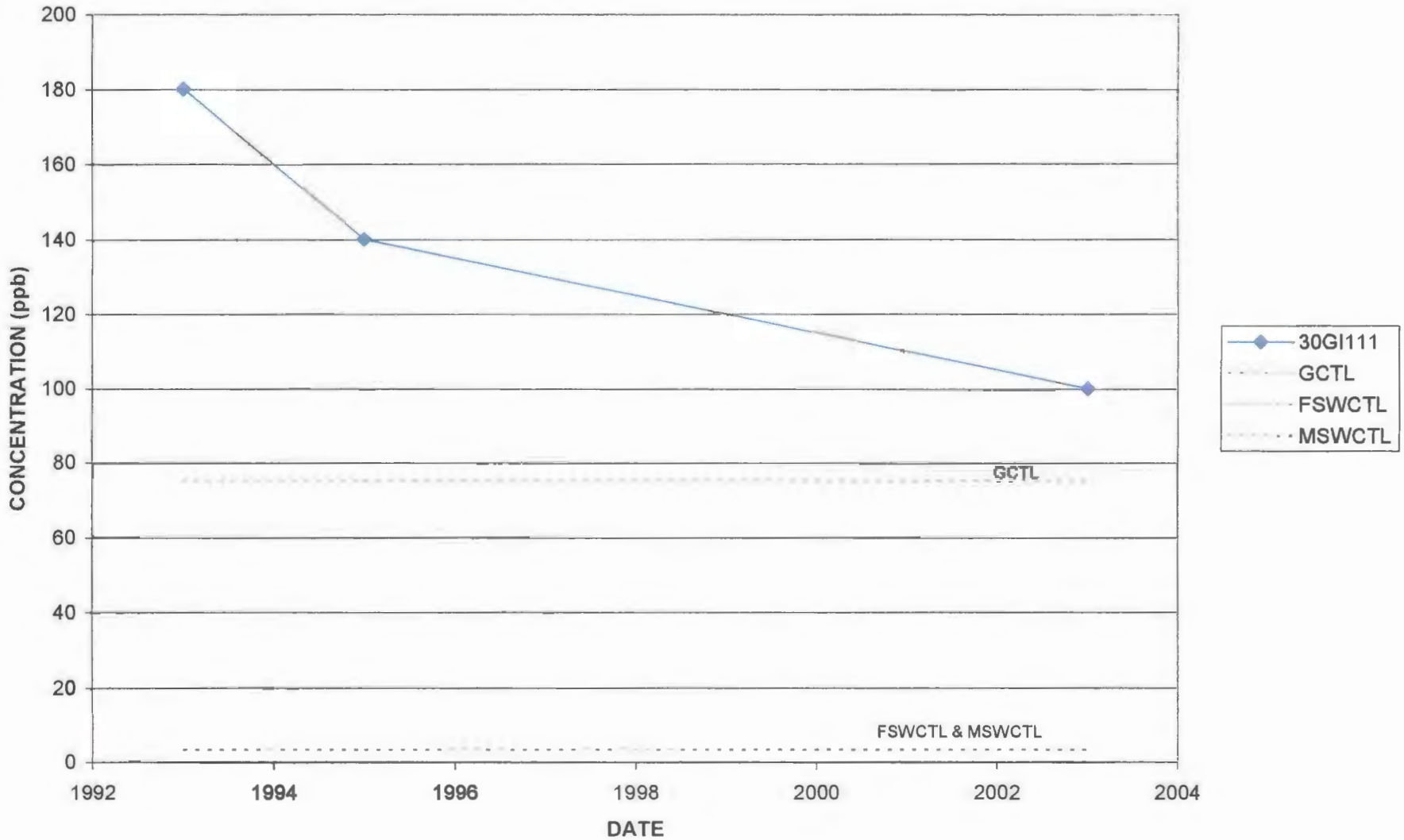


Table 13
Summary of Groundwater SVOAs, OU2, 2003 RI Addendum, NASP

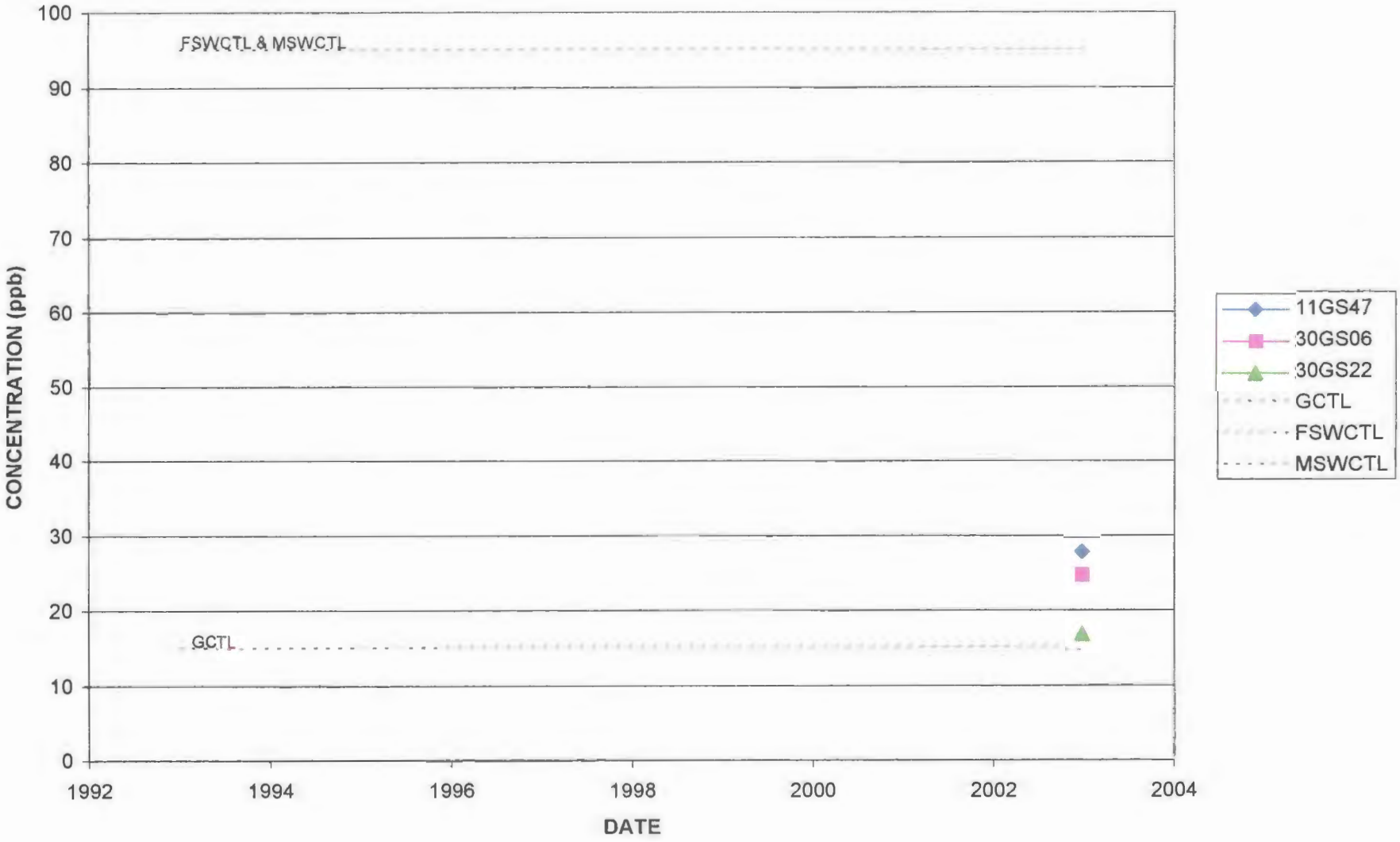
	Florida CTLs (ppb)			WELL ID -->	11GS47		27GS18			27GS19			30GI111			30GS06			30GS22			30GS51			30GS111		
				1993	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003
PARAMETER	**GCTL**	**FSWCTL**	**MSWCTL**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
1,4 Dichlorobenzene	75	3.3	3.3									**180** J	**140** D	**100**												
1-Methyl naphthalene	15	95	95		**28**												**25** D			**17**						
2,4-Dichlorophenol	0.3	13	13									**3** J	**3.2** J	**1.3** J												
2-Methylnaphthalene	15	30	30	**25**	**39**				**28**	6.3 J	12				**35**	<10 U	**32** D	12	1.3 J	**19**						
3 Methylphenol/4 Methylphenol 1	3.8	70	70				<10 U	**29**		**20**	**110**					<10 U	**40**		<10 U	**63**						
Naphthalene	15	26	26	**47**	5.2	**34**	**49**	**47** D	**110**	**50**	**150** D				**76**	0.91 J	**90** D	**23**	14	12	5 J	**15**	0.092	<10 U	<6.8 U	**17**

Notes:
all results in ppb
GCTL exceedances in BOLD
NA = not applicable
1 = more conservatwe 4 methylphenol criteria used over 3-methylphenol
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

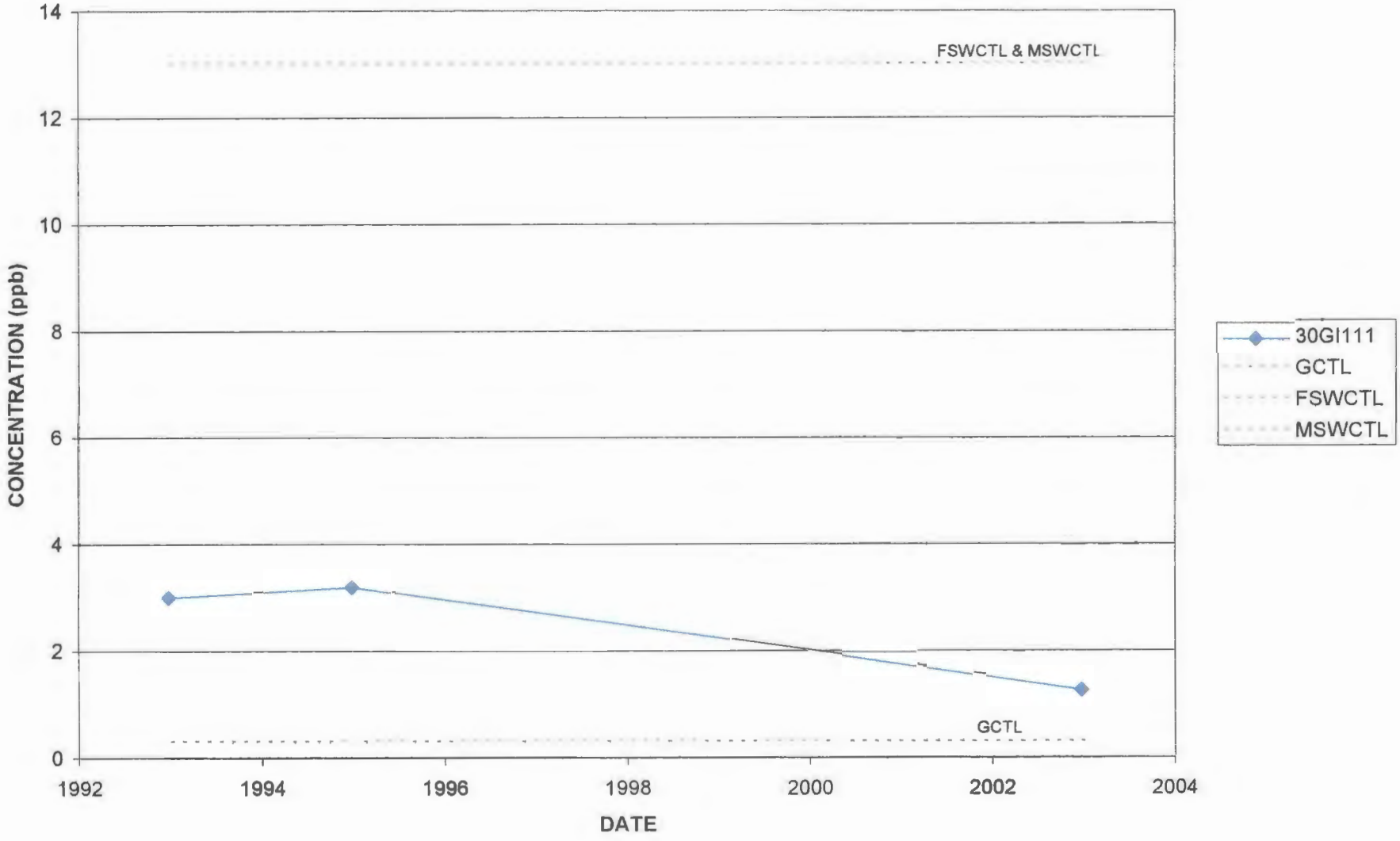
TS-4: TREND SUMMARIES OF 1,4-DICHLOROBENZENE IN SELECTED WELLS



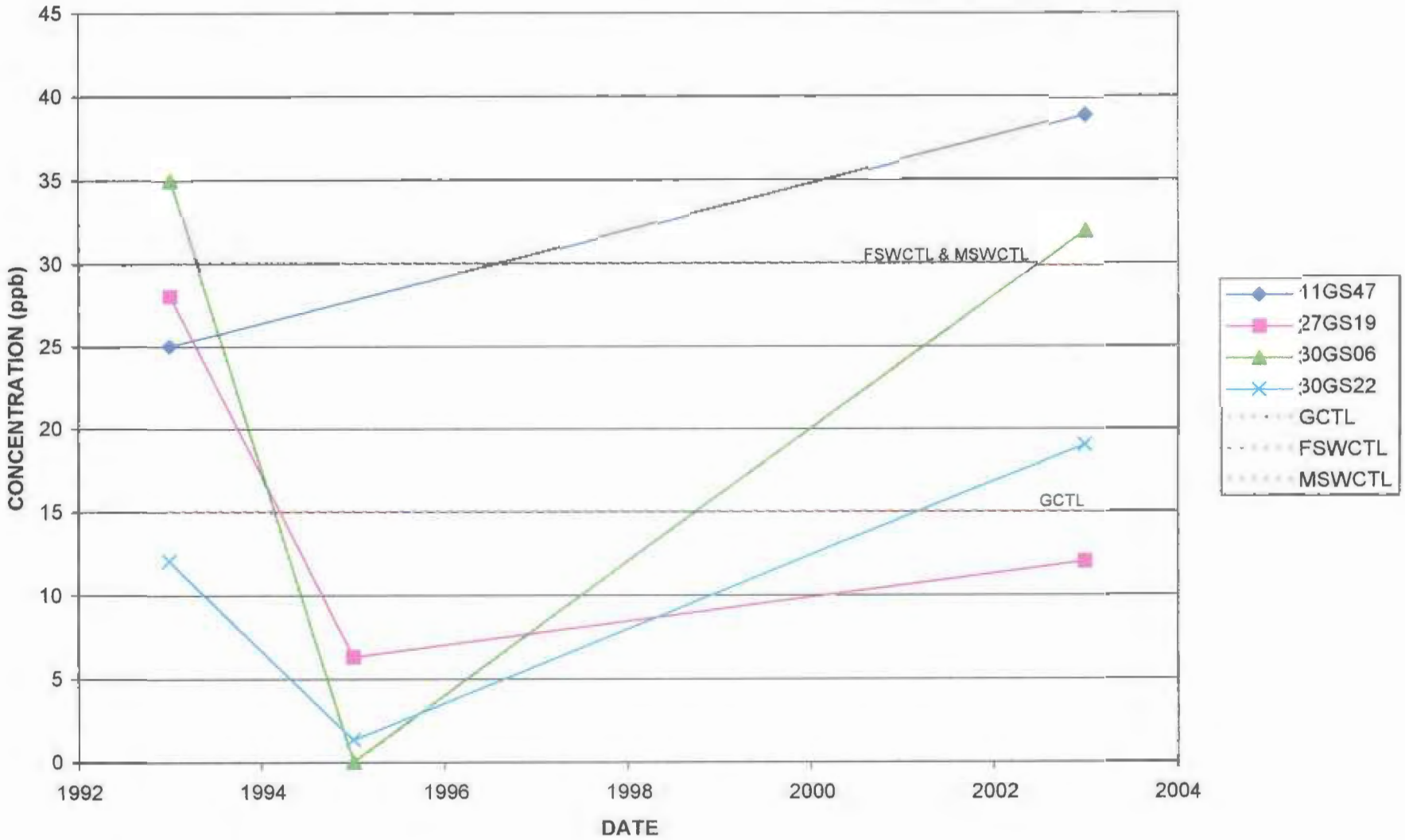
TS-5: TREND SUMMARIES OF 1-METHYLNAPHTHALENE IN SELECTED WELLS



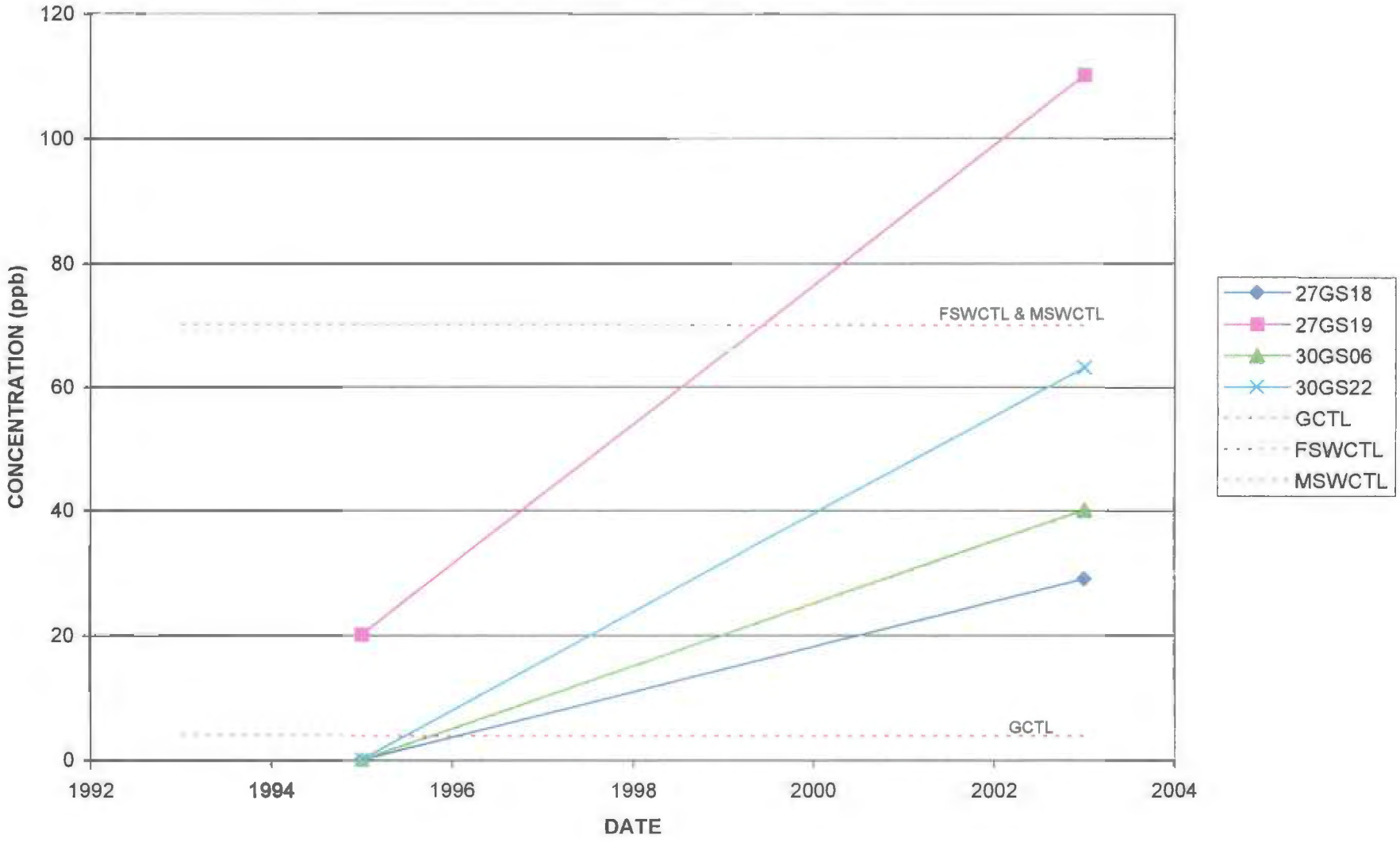
TS-6: TREND SUMMARIES OF 2,4-DICHLOROPHENOL IN SELECTED WELLS



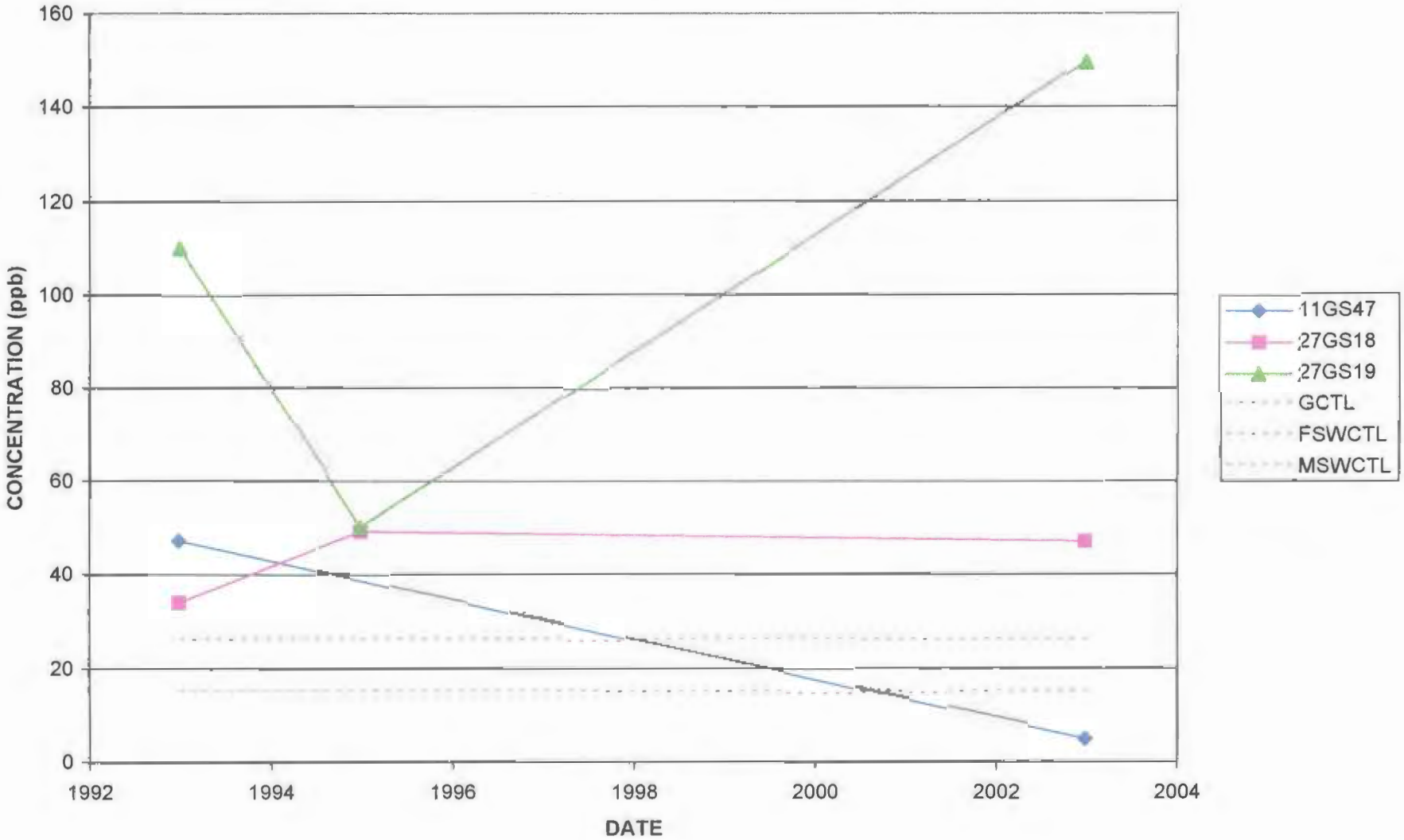
TS-7: TREND SUMMARIES OF 2-METHYLNAPHTHALENE IN SELECTED WELLS



TS-8: TREND SUMMARIES OF 3/4-METHYLPHENOL IN SELECTED WELLS



TS-9: TREND SUMMARIES OF NAPHTHALENE IN SELECTED WELLS



TS-10: TREND SUMMARIES OF NAPTHALENE IN SELECTED WELLS

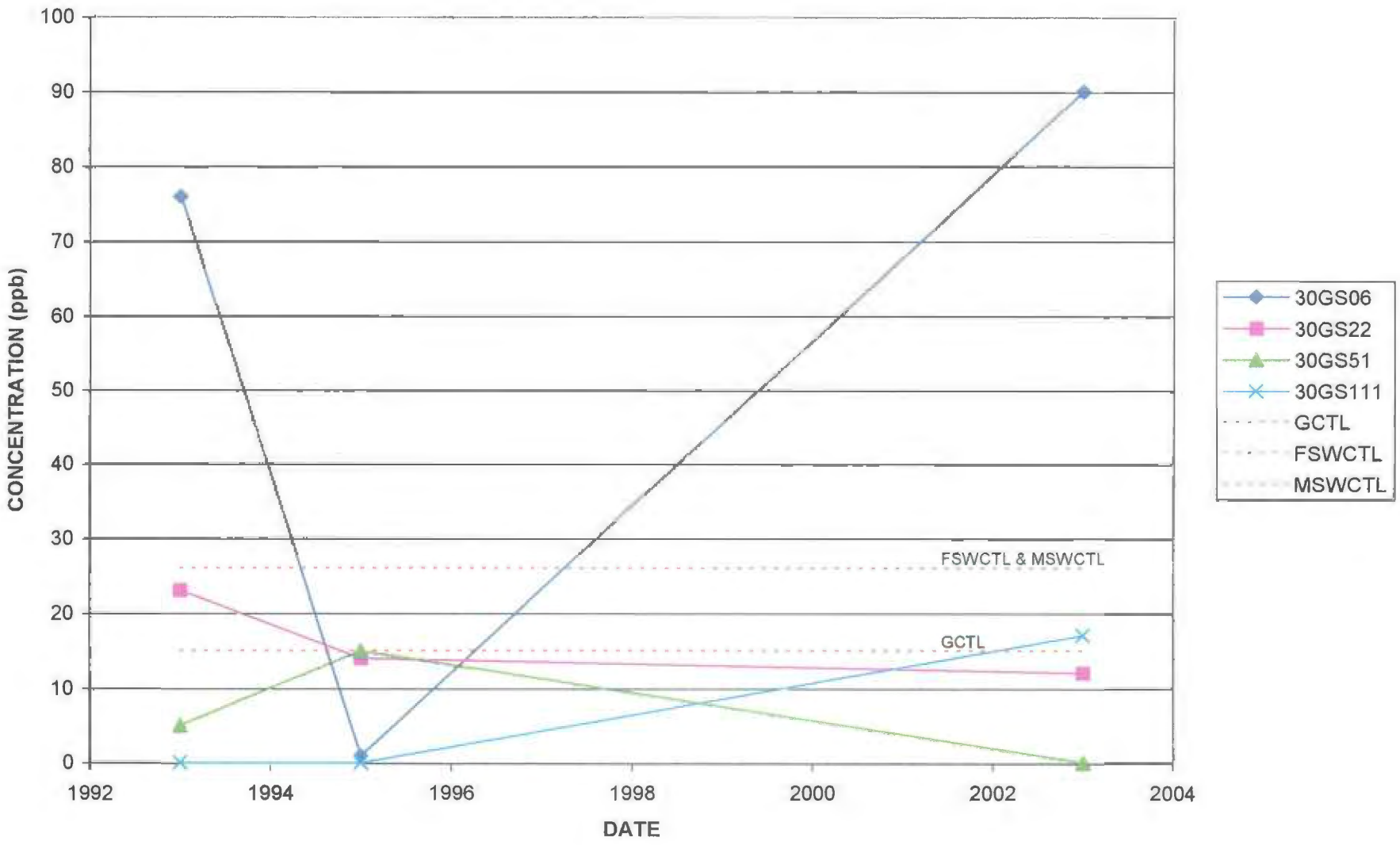


Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	11GI02			11GI12			11GI14			11GS05			11GS13		
	Florida CTLs (ppb)			1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28															
Chlorobenzene	100	17	17															
Chloroethane	13	NA	NA															
1,1-Dichloroethane	76	NA	NA															
1,1-Dichloroethene	7	3.2	3.2															
cis-1,2-Dichloroethene	70	NA	NA					32 J	**88**		**240** D	**360**						
Tetrachloroethene	3	8.85	8.85	<10 U	0.3 J	**25**	<10 U	<1 UJ	**3.5**							<10 U	**7** J	<0.43 U
1,1,1-Trichloroethane	200	270	270															
Trichloroethene	3	80.7	80.7	**3** J	**3**	**22**	**14**	**11** J	**14**	<50 U	1	**7.5**	**4** J	0.7 J	0.35 J	<10 U	**5** J	<0.13 U
Vinyl chloride	1	2.6	2.6							**88**	**33**	**5.8**				<10 U	**3** J	0.81 J
Xylene (Total)	20	370	370										<10 U	**21**	4.8			

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene			Chlorobenzene			Chloroethane			1,1-DCA			1,1 DCE			cis-1,2-DCE			PCE			TCA			TCE			VC			Xylenes		
	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003
GCTL	1	1	1	100	100	100	13	13	13	76	76	76	7	7	7	70	70	70	3	3	3	200	200	200	3	3	3	1	1	1	20	20	20
FSWCTL	71.28	71.28	71.28	17	17	17							3.2	3.2	3.2				8.85	8.85	8.85	270	270	270	80.7	80.7	80.7	2.6	2.6	2.6	370	370	370
MSWCTL	71.28	71.28	71.28	17	17	17							3.2	3.2	3.2				8.85	8.85	8.85	270	270	270	80.7	80.7	80.7	2.6	2.6	2.6	370	370	370

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	11GM28			11GM47			11GM52			25GI01			25GI02			27GI02			27GI04	
	Florida CTLs (ppb)			1993		2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT		RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28	<10	U	**3.2**	<10 U	**3**	**11**										**25**	<1 U	<0.17 U		
Chlorobenzene	100	17	17																				
Chloroethane	13	NA	NA																				
1,1-Dichloroethane	76	NA	NA																				
1,1-Dichloroethene	7	3.2	3.2							<50 U	**10**	2.4										**14**	**18**
cis-1,2-Dichloroethene	70	NA	NA								**970** D	**150** D											
Tetrachloroethene	3	8.85	8.85							<50 U	**23**	1.6											
1,1,1-Trichloroethane	200	270	270																				
Trichloroethene	3	80.7	80.7				<10 U	<1 U	<0.2 J	**20** J	**50**	**15**	**14**	**17**	**8.2**	**5** J	**10**	1.4					
Vinyl chloride	1	2.6	2.6	**2**	J	0.88 J	**55**	**48** D	**12**	**230**	**74** D	**2.4**							**4** J	<1 U	<0.13 U		
Xylene (Total)	20	370	370	1	J	<0.67 U	**200**	**250** D	**170**										**34**	<1 U	<0.28 U		

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene		
	1993	1995	2003
GCTL	1	1	1
FSWCTL	71.28	71.28	71.28
MSWCTL	71.28	71.28	71.28

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	27GI06		27GS02			27GS04			27GS10			27GS11			27GS18		27GS19		
	Florida CTLs (ppb)			1993	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	2003	1993	1995	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28						<10 U	<1 U	**3.1**											
Chlorobenzene	100	17	17																			
Chloroethane	13	NA	NA									<10 U	**22**	<0.86 U	**84**	7 J	**13**	**33** J	4.6	**96** J	2	<0.86 U
1,1-Dichloroethane	76	NA	NA									7	**260**	1.9	**300**	**120** D	35					
1,1-Dichloroethene	7	3.2	3.2	<10 U	**16**				**51**	<1 U	<0.31 U	**10**	**110** D	2.2	**26**	**12** J	1.2					
cis-1,2-Dichloroethene	70	NA	NA																		**25** D	**300** D
Tetrachloroethene	3	8.85	8.85									<10 U	**9**	0.9 J	**4** J	2 J	1.7	**62** J	**10**	**61** J	**32** D	**65**
1,1,1-Trichloroethane	200	270	270									160	320	<0.07	**300**	51 J	10					
Trichloroethene	3	80.7	80.7			**3** J	**3**	1.7	**3** J	**7**	**3.3**									**130**	**17**	**3.6**
Vinyl Chloride	1	2.6	2.6																			
Xylene (Total)	20	370	370															**480**	**78**	**640**	**79** D	**530**

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene		
	1993	1995	2003
GCTL	1	1	1
FSWCTL	71.28	71.28	71.28
MSWCTL	71.28	71.28	71.28

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	27GS21			30GI119		30GI111			30GI164		30GI170		30GI32A			30GS03	
	Florida CTLs (ppb)			1993	1995	2003	1993	2003	1993	1995	2003	1993	2003	1993	2003	1993	1995	2003	1993	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28						**7**	2 J	**2.8**									
Chlorobenzene	100	17	17						**830** UD	**620** D	**450** D									
Chloroethane	13	NA	NA	**190**	8	0.86														
1,1-Dichloroethane	76	NA	NA									**320**	13							
1,1-Dichloroethene	7	3.2	3.2	**15**	<1 U	0.31						**410**	2.8			**14** J	0.8 J	0.35 J		
cis-1,2-Dichloroethene	70	NA	NA												**100**					
Tetrachloroethene	3	8.85	8.85	**3** J	2	0.58								**3** J	0.98 J				**7** J	<0.43 U
1,1,1-Trichloroethane	200	270	270									**950**	<0.065 U			**300**	16 J	<0.065 U		
Trichloroethene	3	80.7	80.7				**22**	<0.13 U						**34**	**310** D					
Vinyl chloride	1	2.6	2.6						**15**	**20**	**7.9**			<10 U	**3.8**					
Xylene (Total)	20	370	370	**50**	<1 U	0.28														

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene		
	1993	1995	2003
GCTL	1	1	1
FSWCTL	71.28	71.28	71.28
MSWCTL	71.28	71.28	71.28

Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

			WELL ID->	30GS06			30GS18			30GS22			30GS27			30GS28			30GS46			30GS101	
	Florida CTLs (ppb)			1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	1995	2003	1993	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28	**250**	2	**2.6** J																**1** J	<0.11 U
Chlorobenzene	100	17	17																				
Chloroethane	13	NA	NA							<50 U	**110** D	**22**	<100 U	**520** D	<0.86 U	<50 U	**580** D	<0.86 U					
1,1-Dichloroethane	76	NA	NA							**900** D	**1400** D	**180**	45 J	**4300** D	1.6	**380**	**2400** D	7.1					
1,1-Dichloroethene	7	3.2	3.2							**170**	**68** D	2	**510**	**240** D	1.5	**220**	**130** D	<0.31 U					
cis-1,2-Dichloroethene	70	NA	NA														**120** D	12		**190** D	39		
Tetrachloroethene	3	8.85	8.85							**10** J	**13**	**4.2**	**11** J	**12**	0.73 J	**310**	**10**	**6.4**	**200**	**1100** D	**35**		
1,1,1-Trichloroethane	200	270	270							**1400** D	**2100** D	35	**1300**	**1700** D	0.63 J	**1300** D	**2000** D	1.5	**220**	49 DJ	0.28 J		
Trichloroethene	3	80.7	80.7							<50 U	**3**	0.62 J	<100 U	**3**	<0.13 U	**36** J	**5**	0.9 J	**4** J	**58** D	1.4		
Vinyl chloride	1	2.6	2.6				<10 U	<1 U	**2.3**														
Xylene (Total)	20	370	370	**1200**	9 J	**500**																**21**	<0.28 U

Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3-dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene		
	1993	1995	2003
GCTL	1	1	1
FSWCTL	71.28	71.28	71.28
MSWCTL	71.28	71.28	71.28

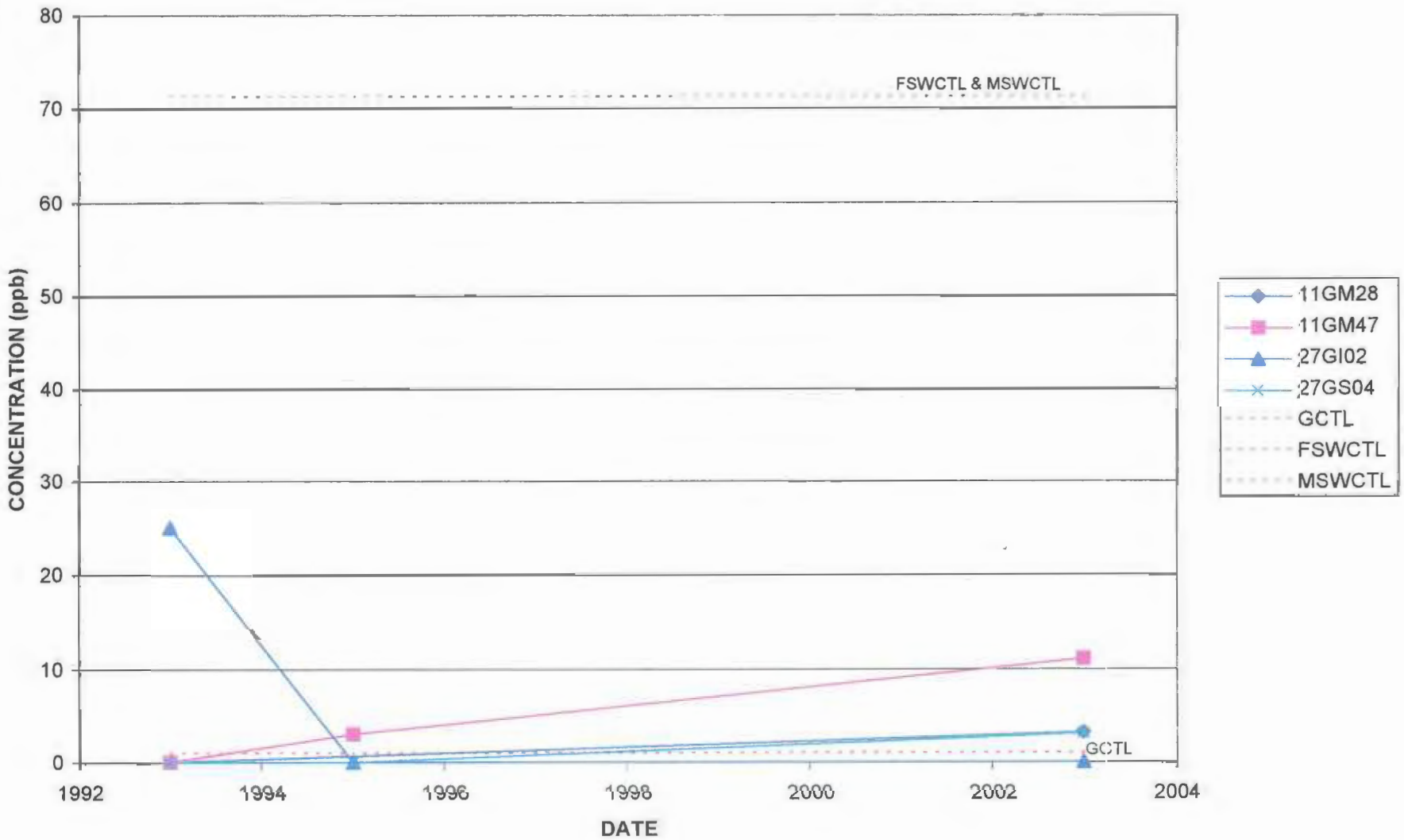
Table 17
Summary of Groundwater VOAs, OU2, 2003 RI Addendum, NASP

				WELL ID-:	30GS111			30GS162			30GS170	
	Florida CTLs (ppb)			1993	1995	2003	1993	1995	2003	1993	2003
PARAMETER	GCTL	FSWCTL	MSWCTL	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Benzene	1	71.28	71.28	<100 U	<1 U	**9.8**				**2** J	<0.096 U
Chlorobenzene	100	17	17	**720**	19 J	**830** D					
Chloroethane	13	NA	NA	<100 U	<1 U	**32**					
1,1-Dichloroethane	76	NA	NA								
1,1-Dichloroethene	7	3.2	3.2				**100**	0.7 J	<0.31 U	**7** J	<0.31 U
cis-1,2-Dichloroethene	70	NA	NA								
Tetrachloroethene	3	8.85	8.85								
1,1,1-Trichloroethane	200	270	270				**260**	3	<0.065 U		
Trichloroethene	3	80.7	80.7								
Vinyl chloride	1	2.6	2.6								
Xylene (Total)	20	370	370								

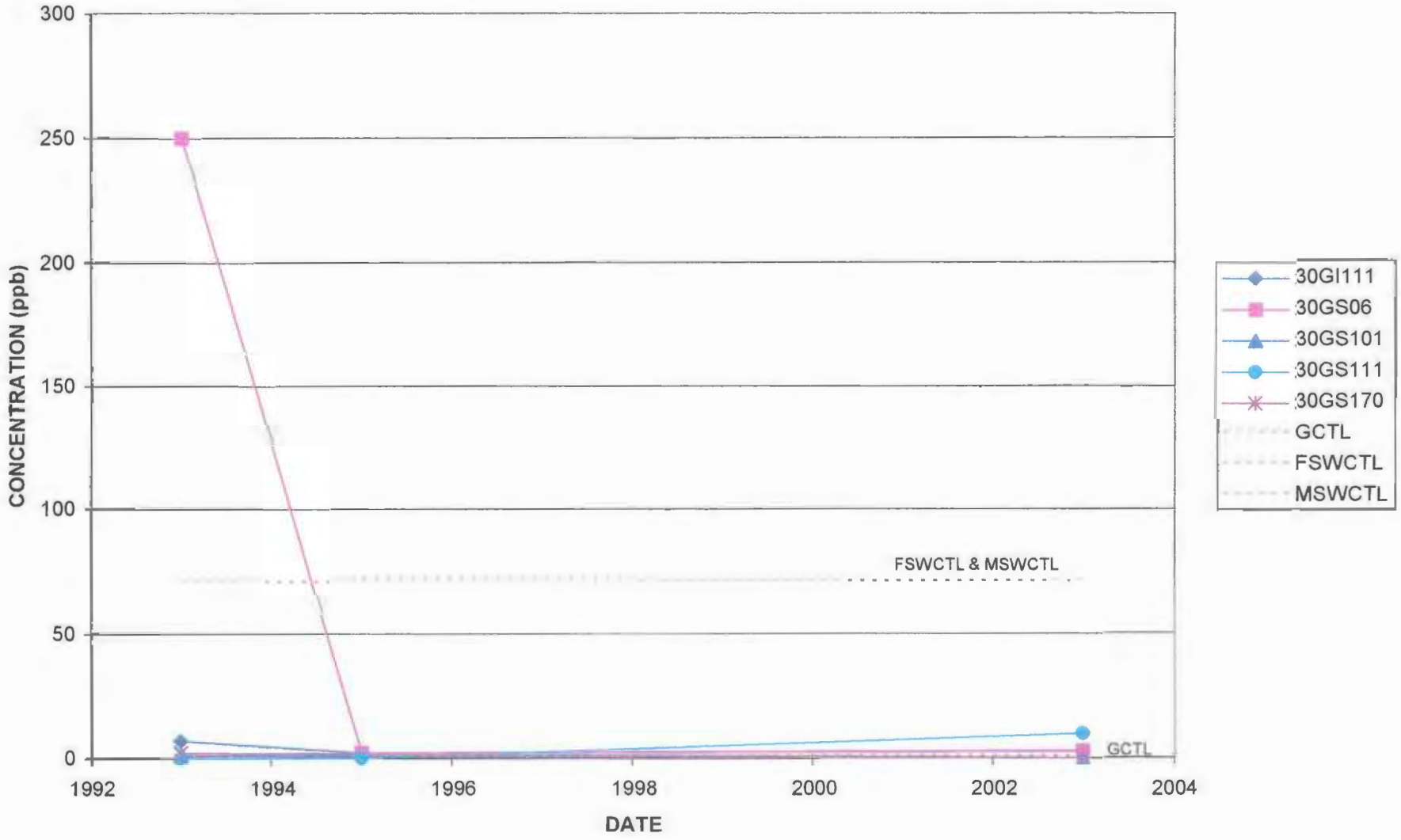
Notes:
all results in ppb
GCTL = groundwater cleanup target level (June 6, 2003)
FSWCTL = Freshwater surface water criteria (June 6, 2003)
MSWCTL = Marine surface water criteria (June 6, 2003)
* = GCTL, FSWCTL & MSWCTL for 1,3 dichloropropene (total)
GCTL exceedances in BOLD
U = not detected
J = estimated concentration below method detection limit
na = not analyzed

	Benzene		
	1993	1995	2003
GCTL	1	1	1
FSWCTL	71.28	71.28	71.28
MSWCTL	71.28	71.28	71.28

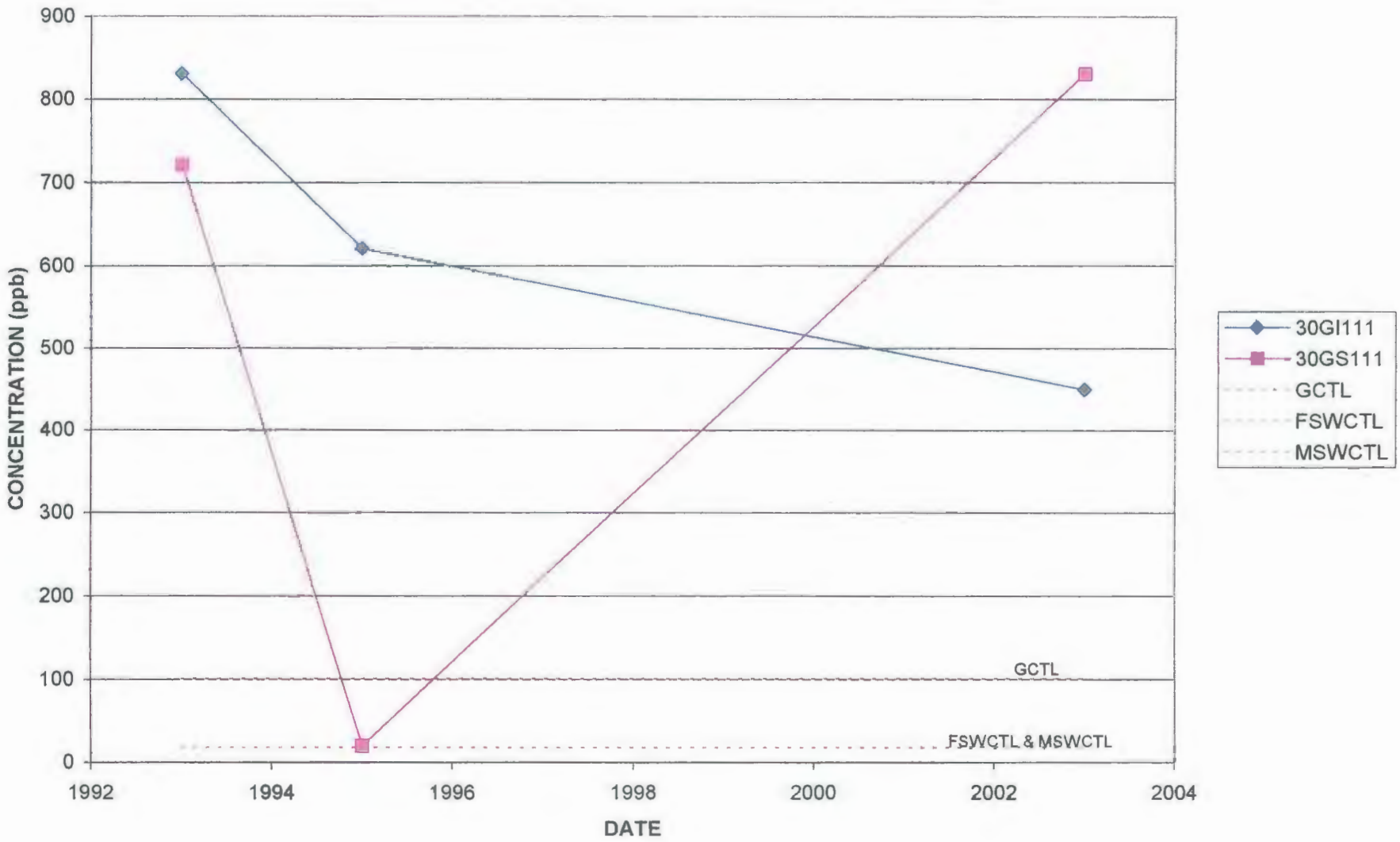
TS-11: TREND SUMMARIES OF BENZENE IN SELECTED WELLS



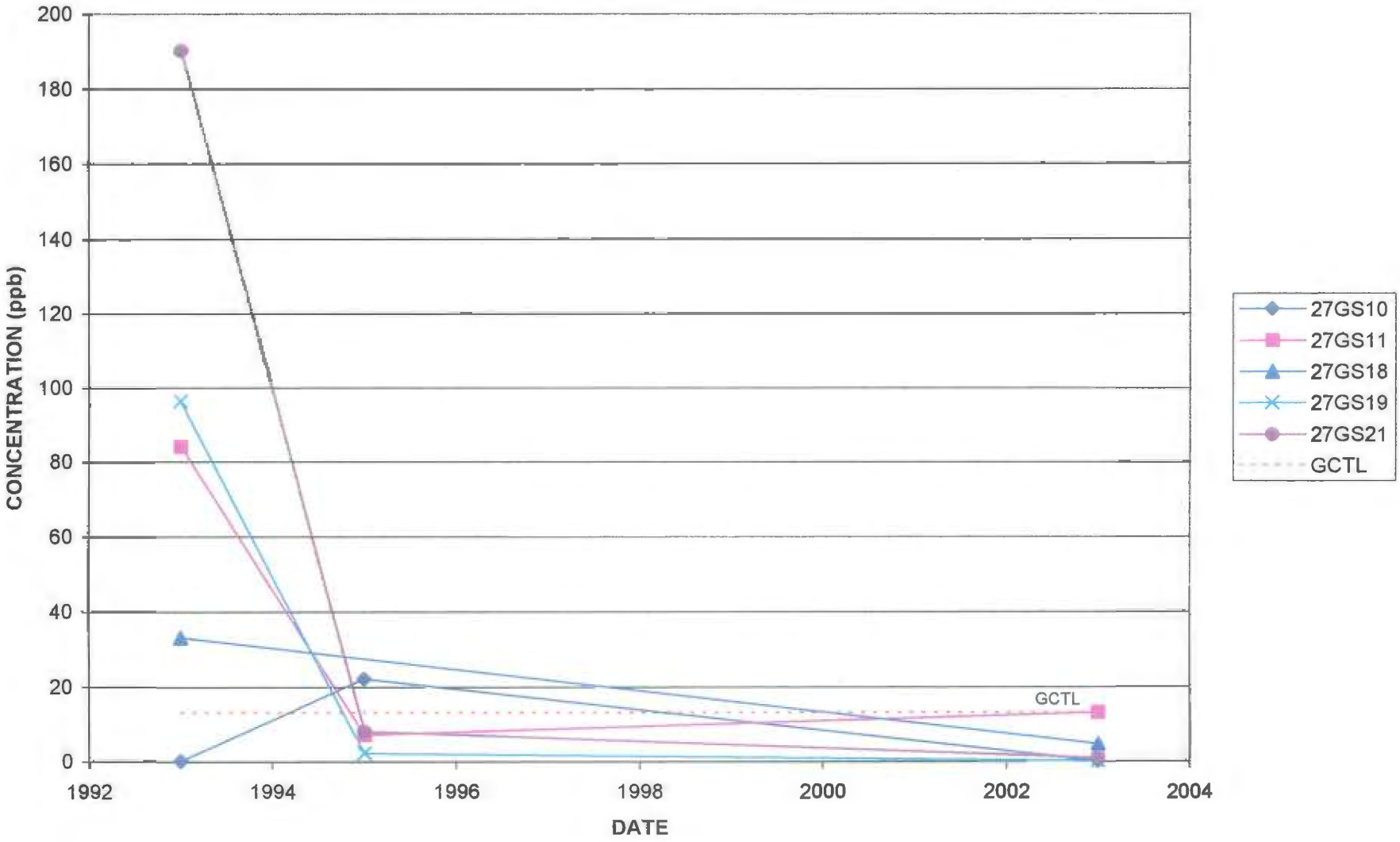
TS-12: TREND SUMMARIES OF BENZENE IN SELECTED WELLS



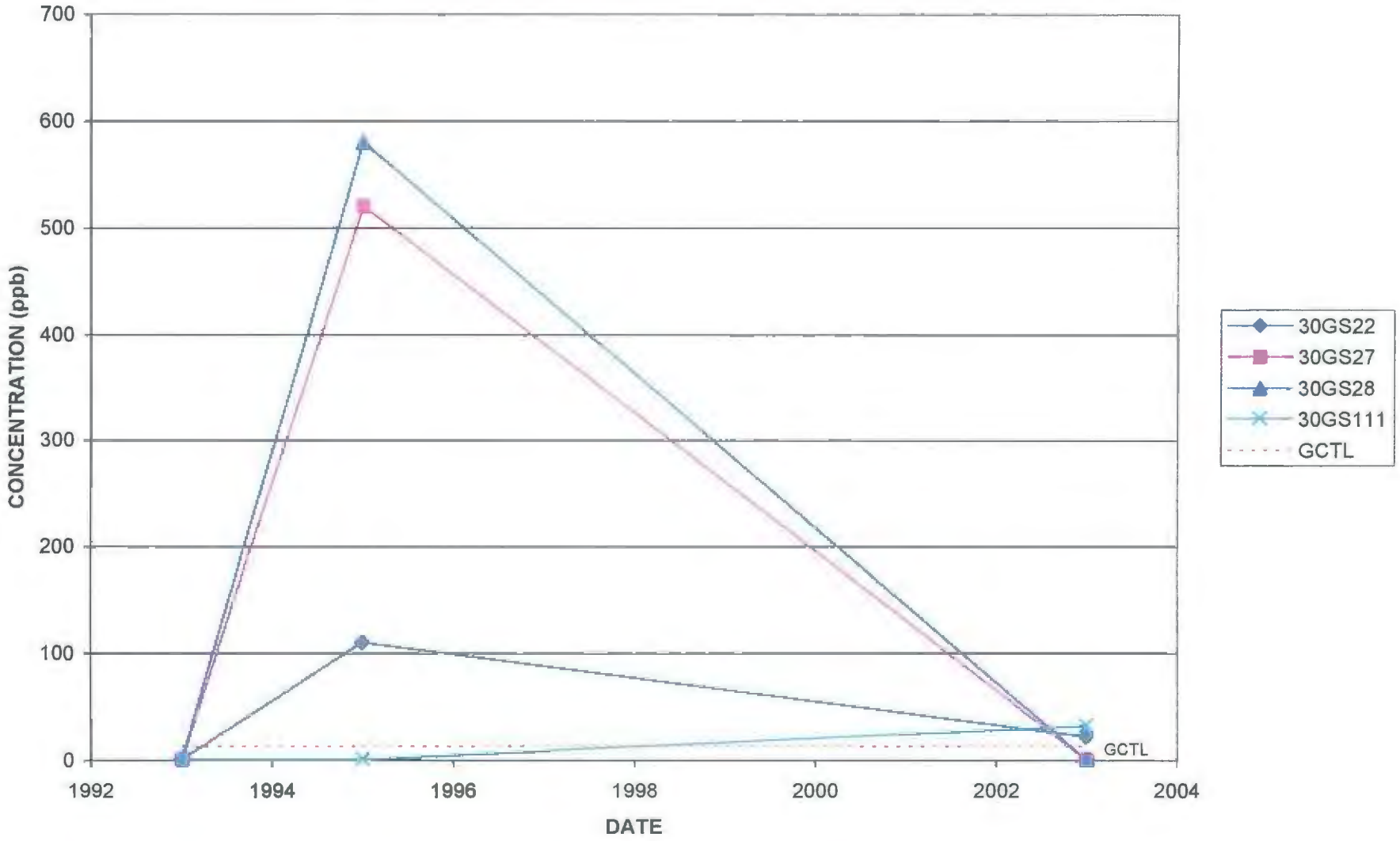
TS-13: TREND SUMMARIES OF CHLOROBENZENE IN SELECTED WELLS



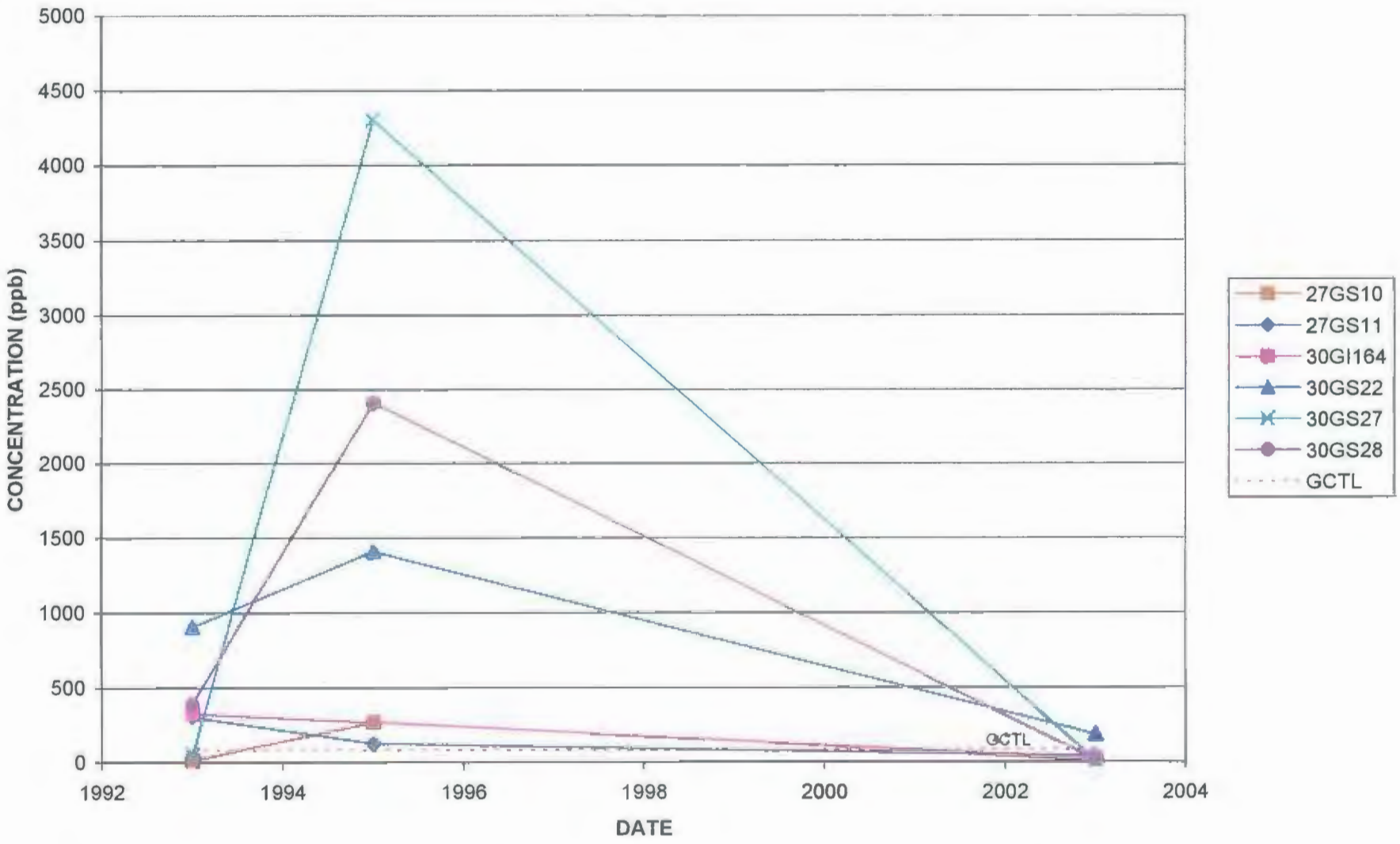
TS-14: TREND SUMMARIES OF CHLOROETHANE IN SELECTED WELLS



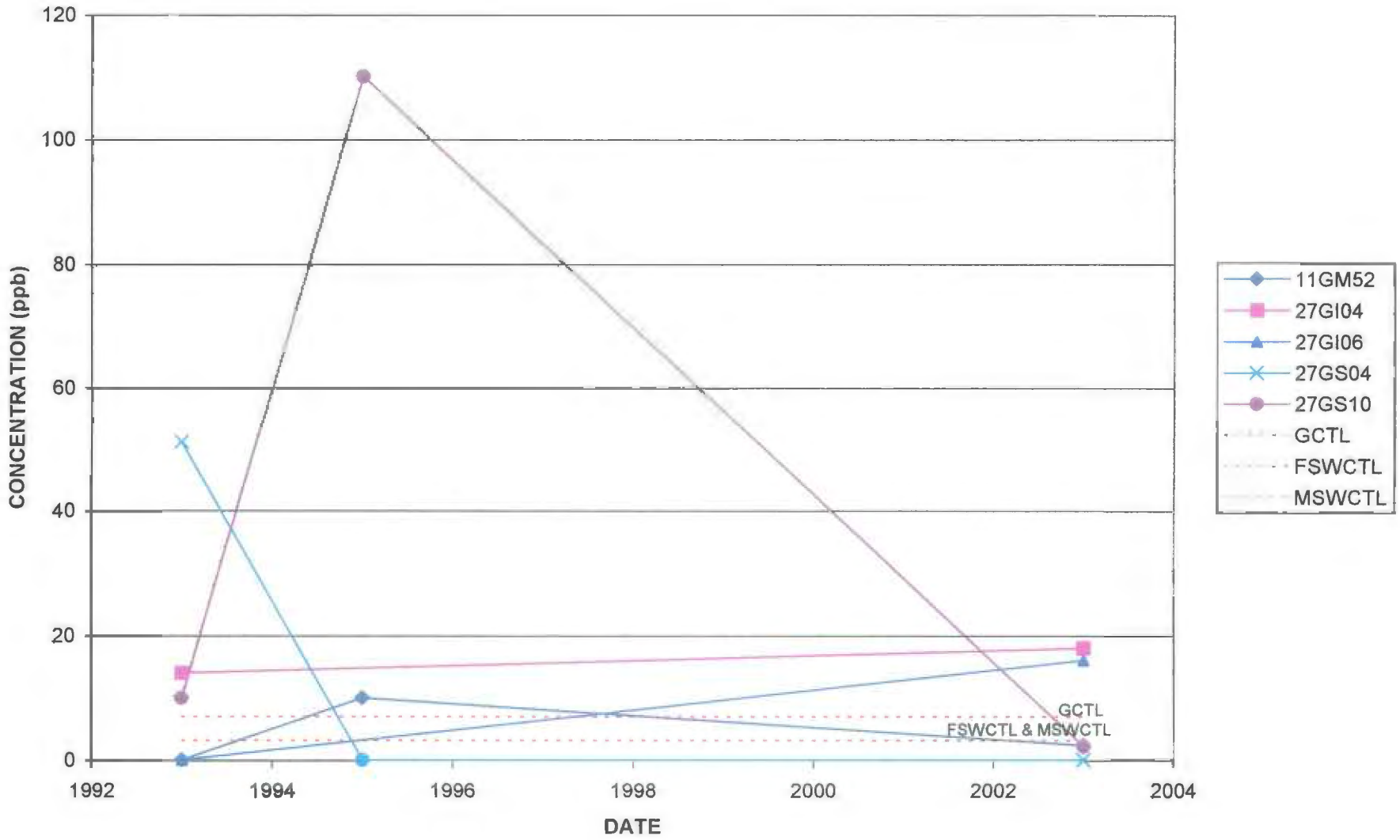
TS-15: TREND SUMMARIES OF CHLOROETHANE IN SELECTED WELLS



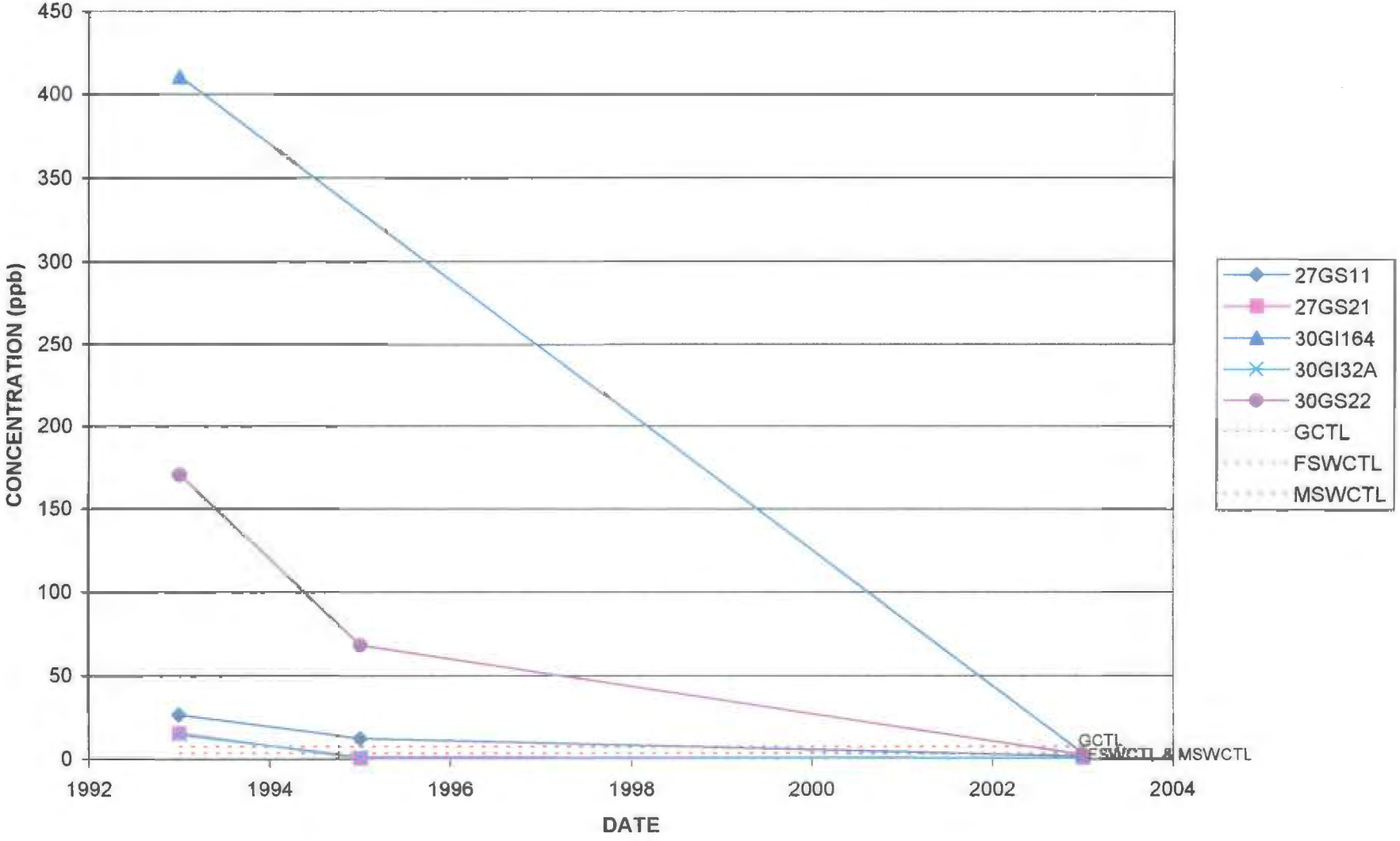
TS-16: TREND SUMMARIES FOR 1,1-DICHLOROETHANE IN SELECTED WELLS



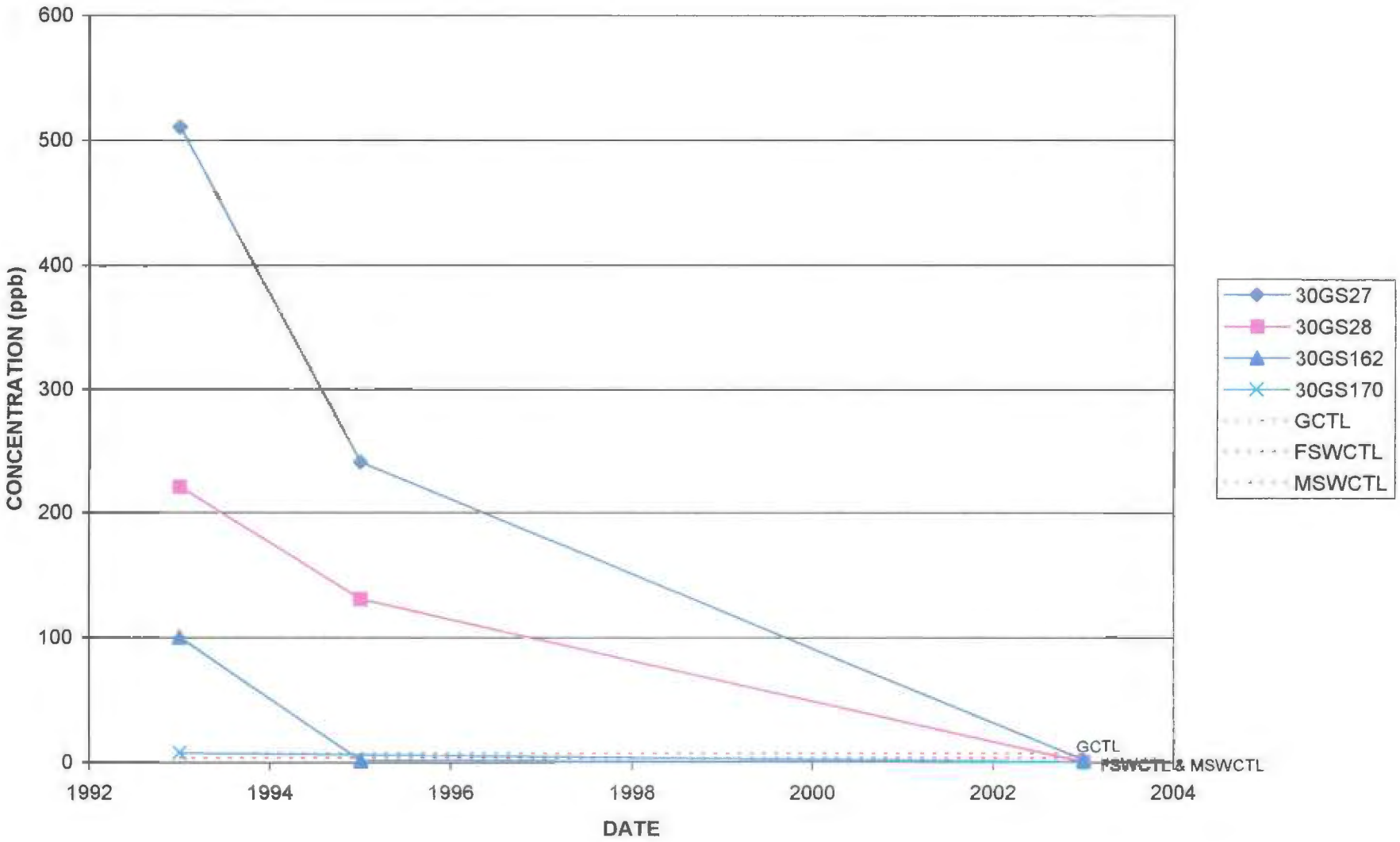
TS-17: TREND SUMMARIES OF 1,1-DICHLOROETHENE IN SELECTED WELLS



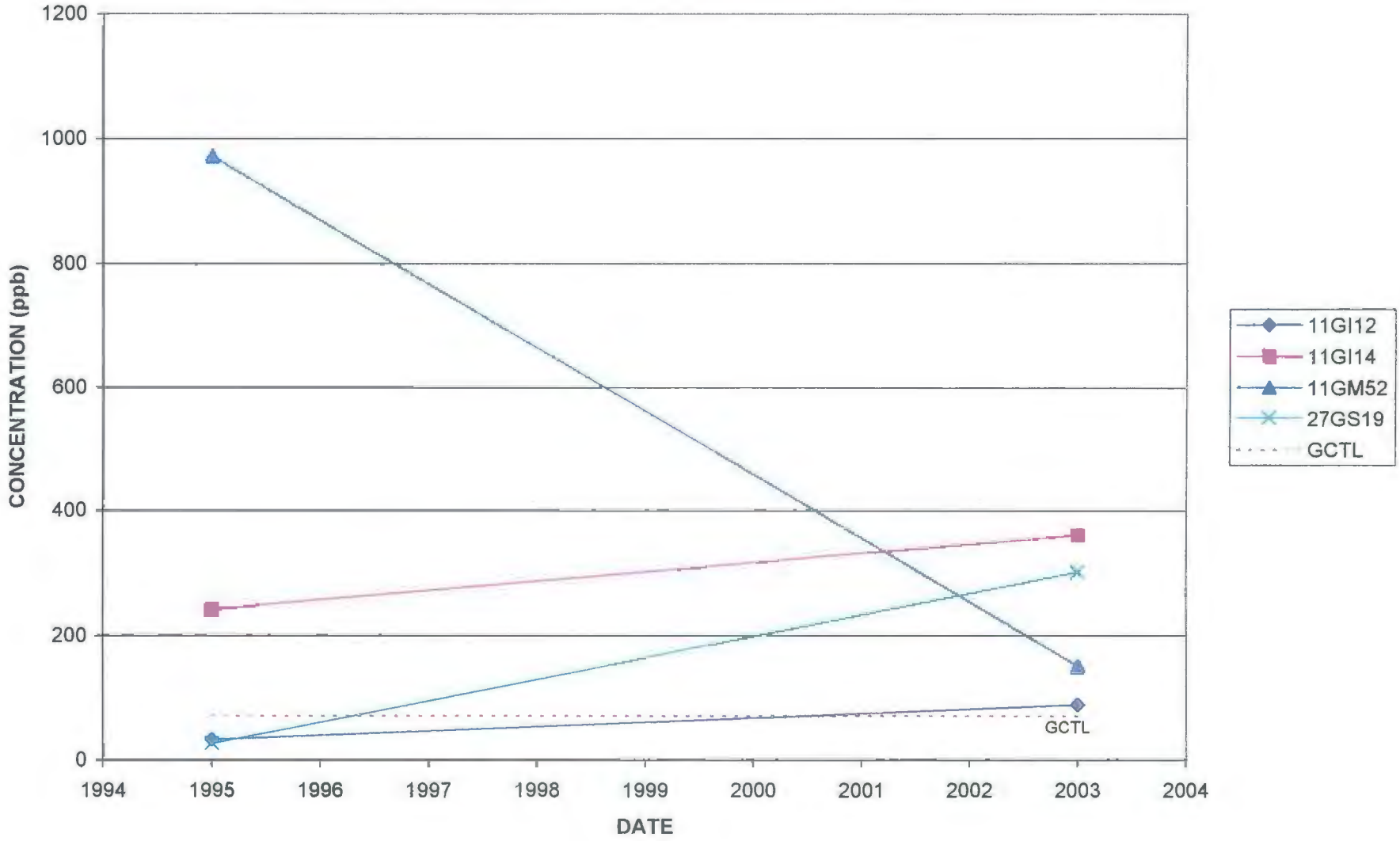
TS-18: TREND SUMMARIES OF 1,1-DICHLOROETHENE IN SELECTED WELLS



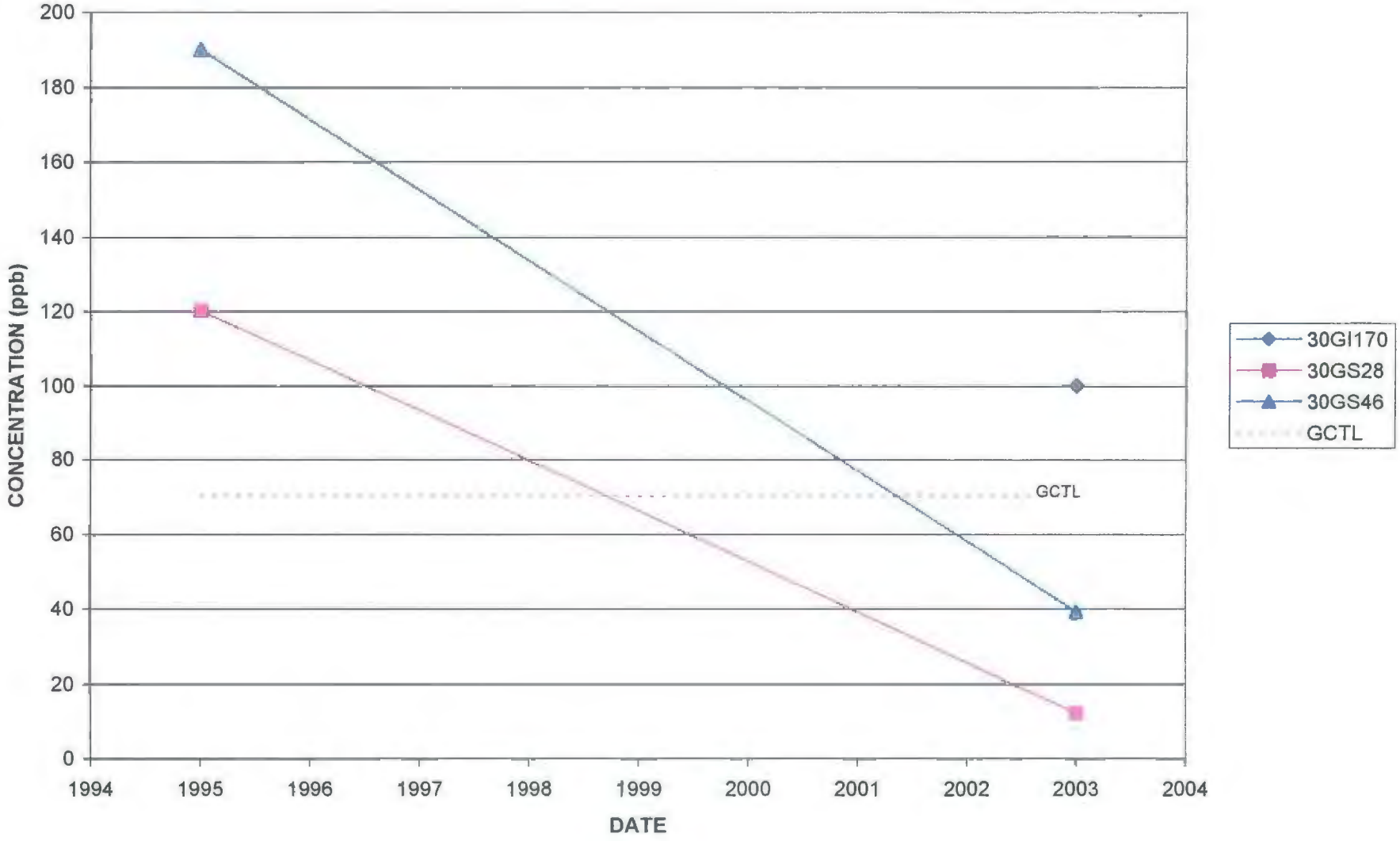
TS-19: TREND SUMMARIES OF 1,1-DICHLOROETHENE IN SELECTED WELLS



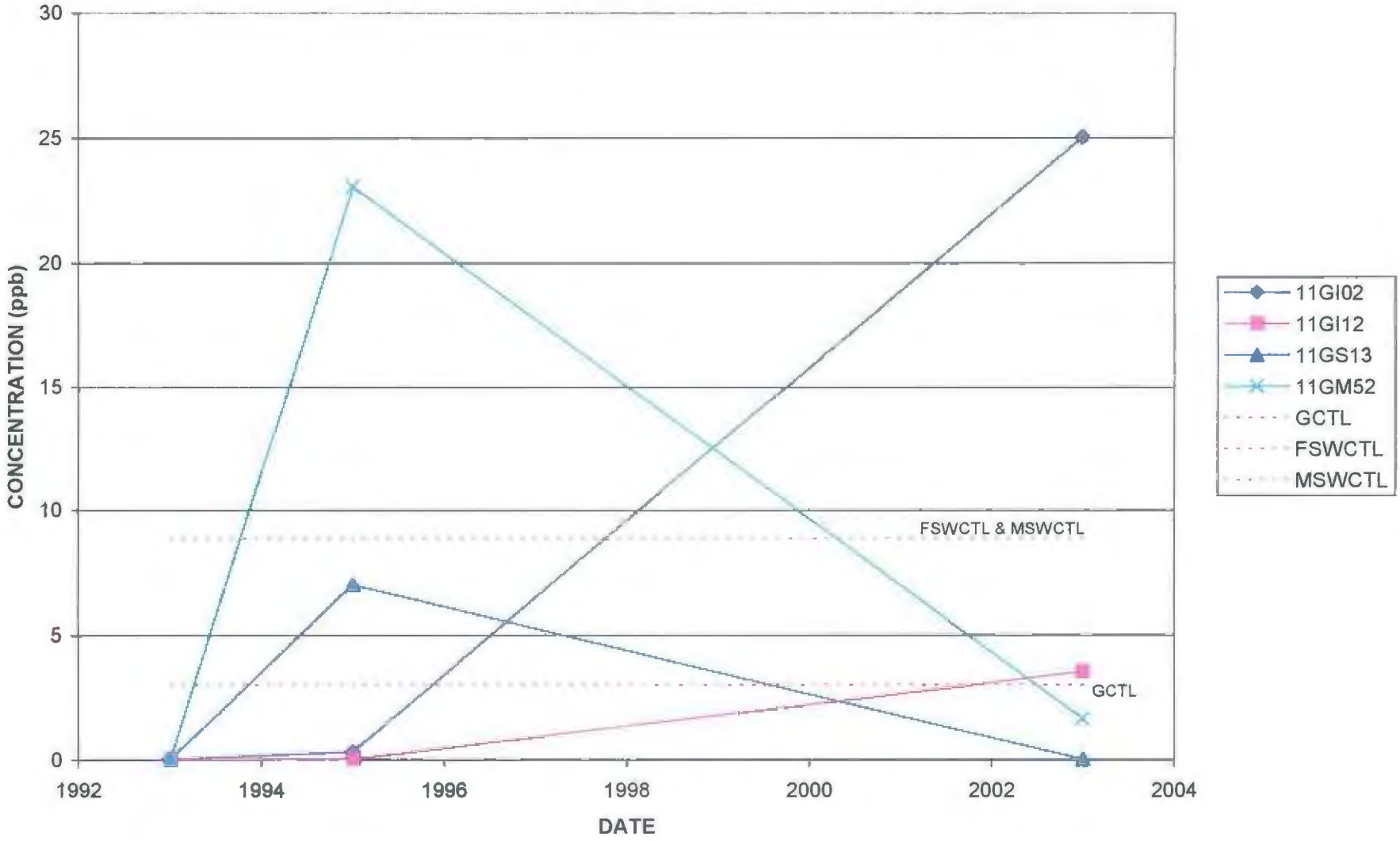
TS-20: TREND ANALYSIS OF CIS-1,2-DICHLOROETHENE IN SELECTED WELLS



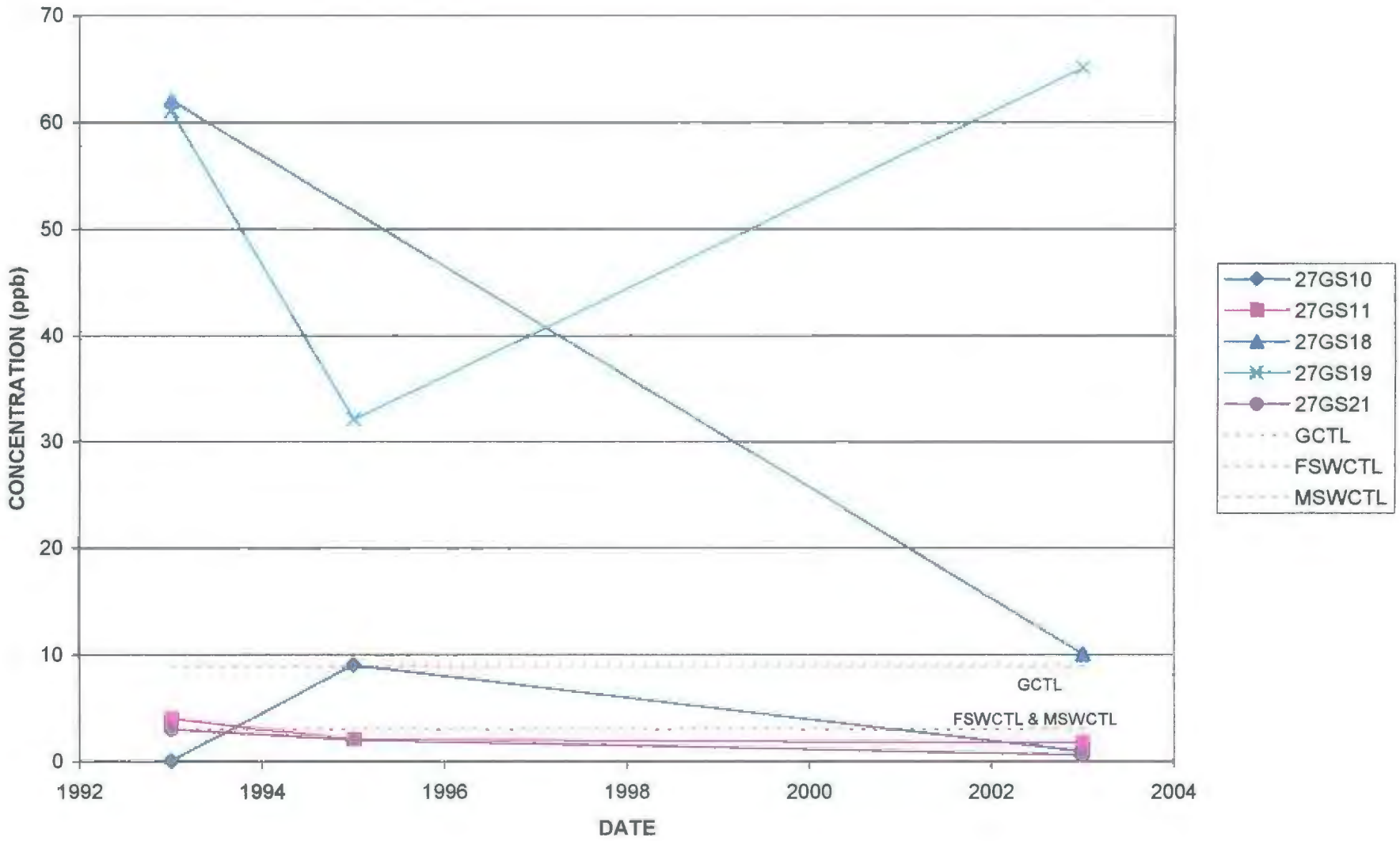
TS-21: TREND SUMMARIES FOR CIS-1,2-DICHLOROETHENE IN SELECTED WELLS



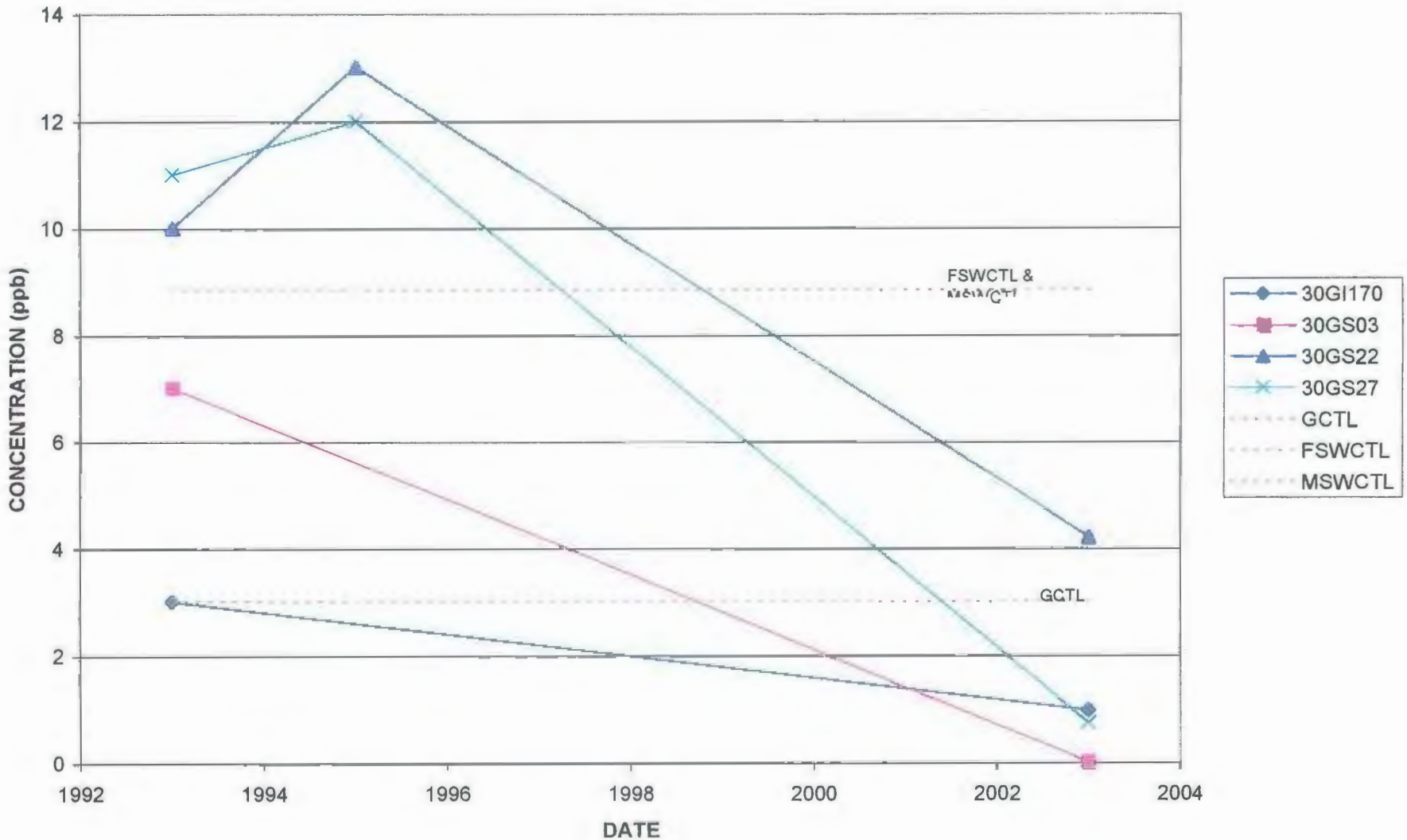
TS-22: TREND SUMMARIES OF TETRACHLOROETHENE IN SELECTED WELLS



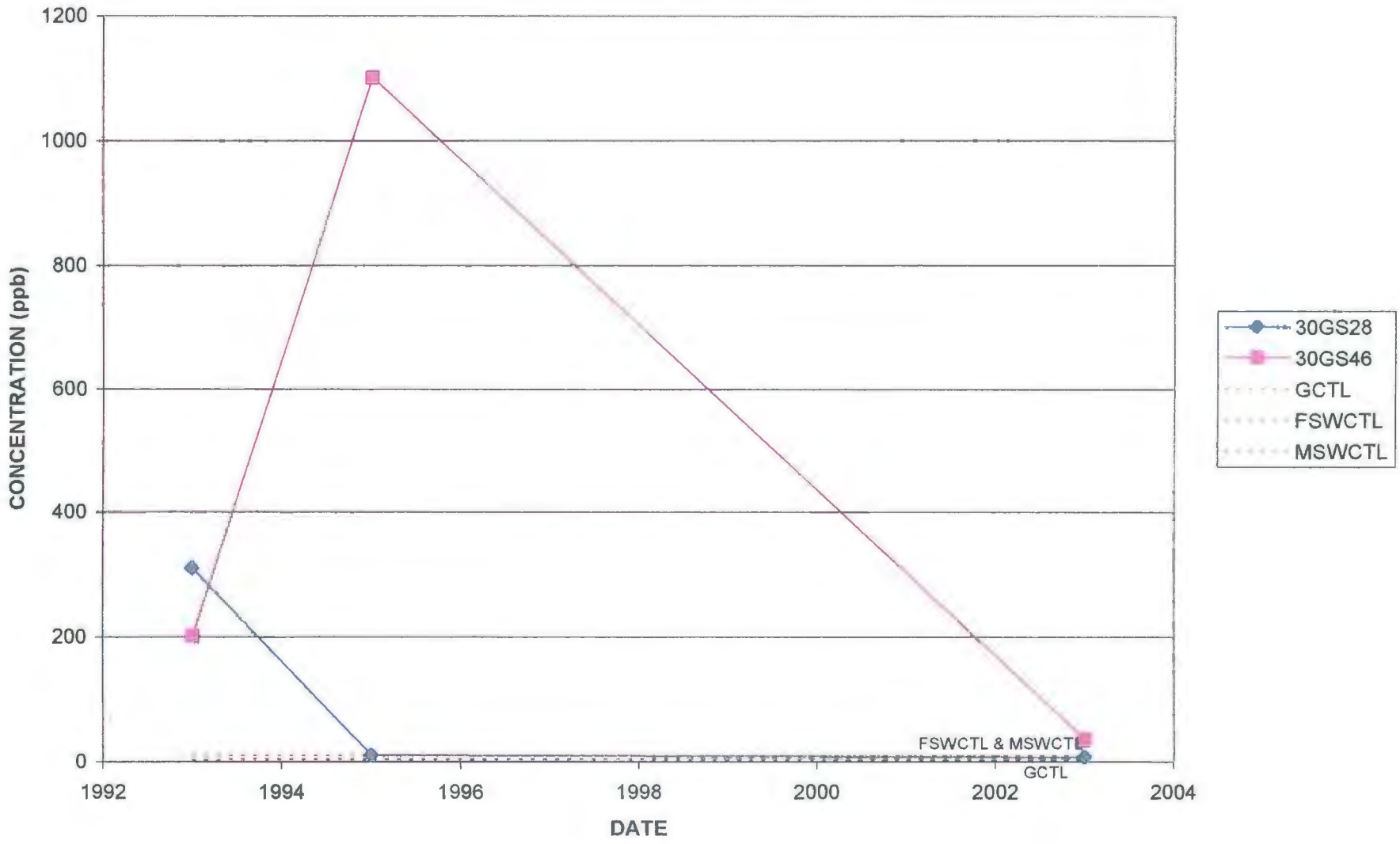
TS-23: TREND SUMMARIES OF TETRACHLOROETHENE FOR SELECTED WELLS



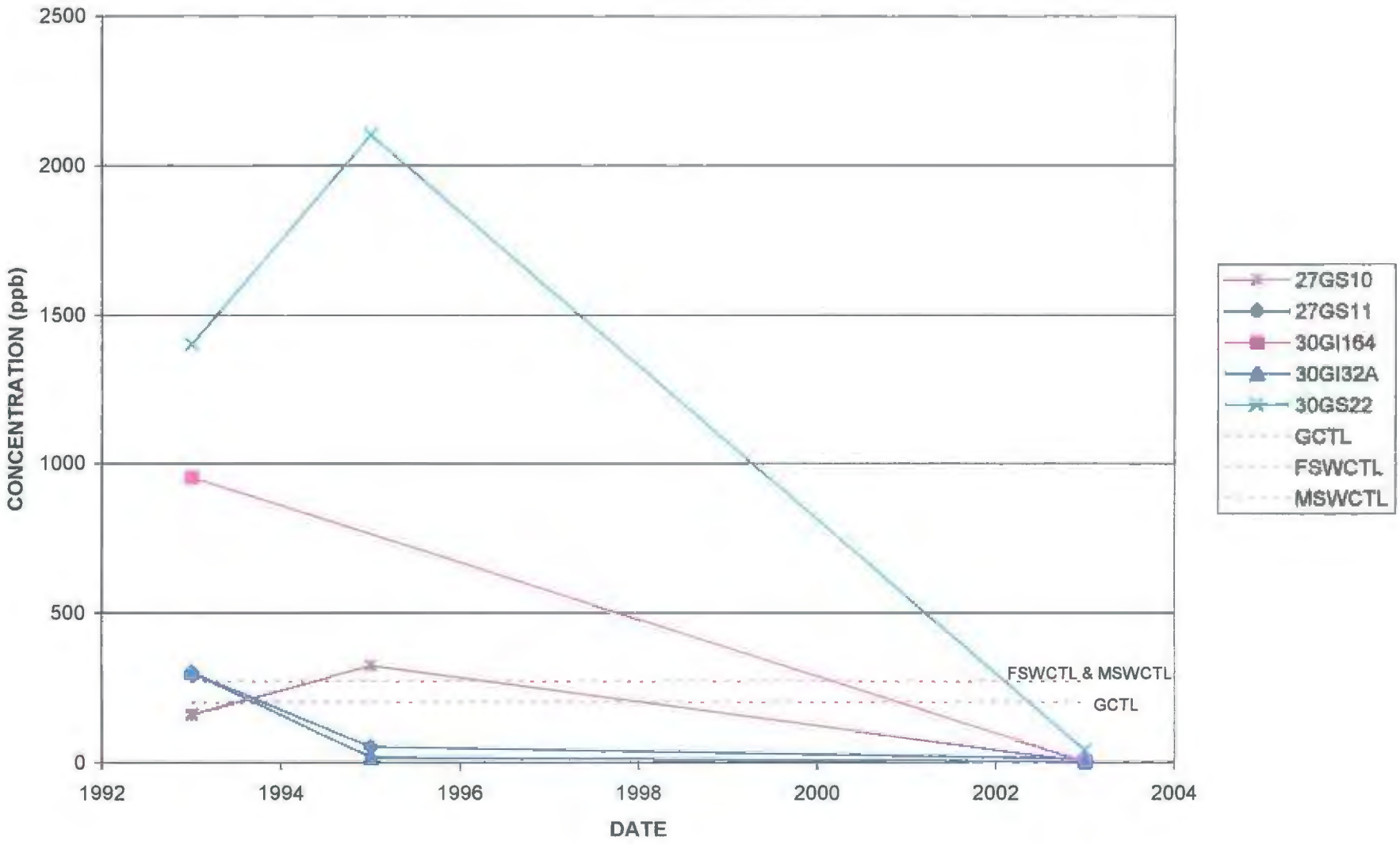
TS-24: TREND SUMMARIES FOR TETRACHLOROETHENE IN SELECTED WELLS



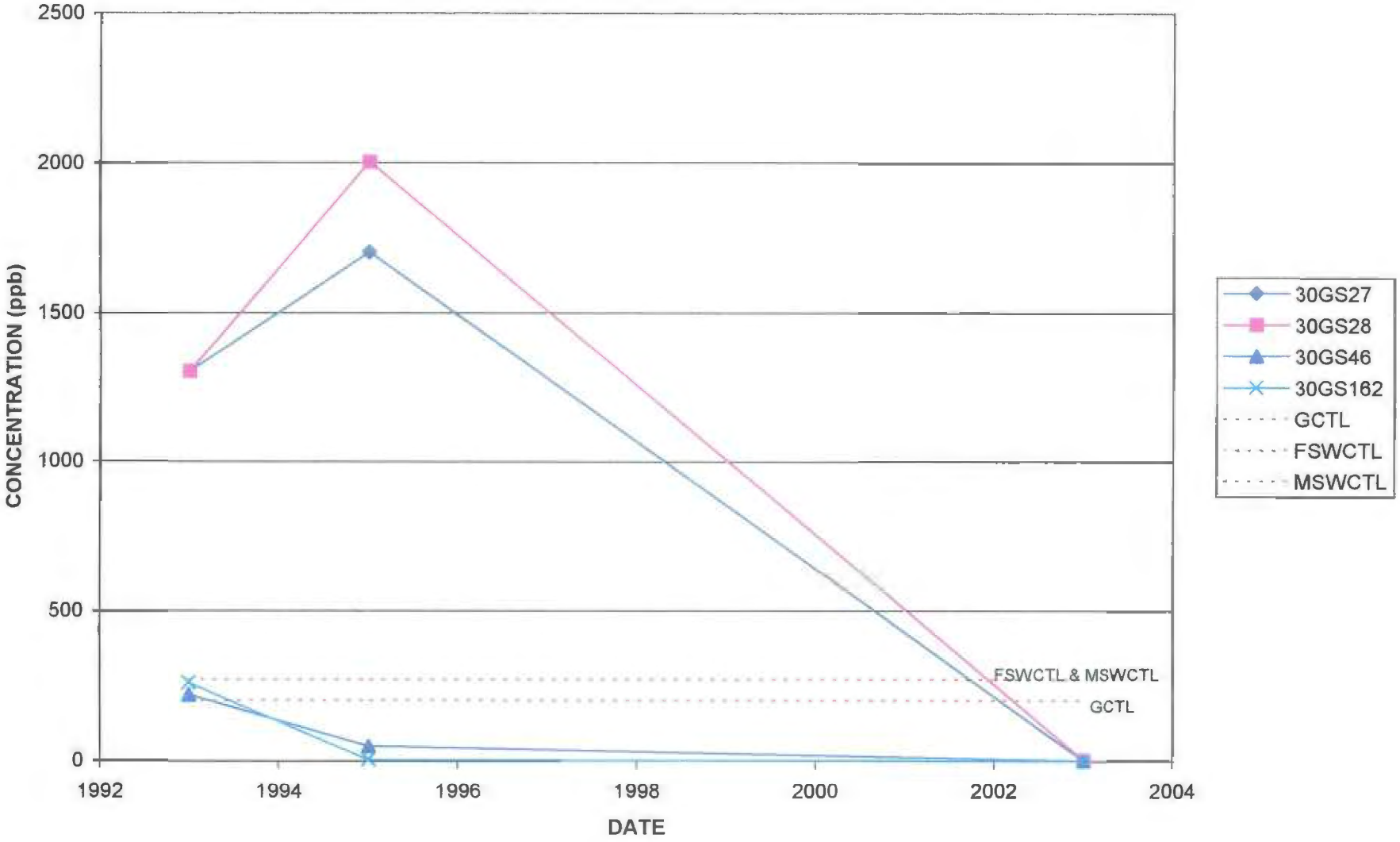
TS-25: TREND SUMMARIES OF TETRACHLOROETHENE IN SELECTED WELLS



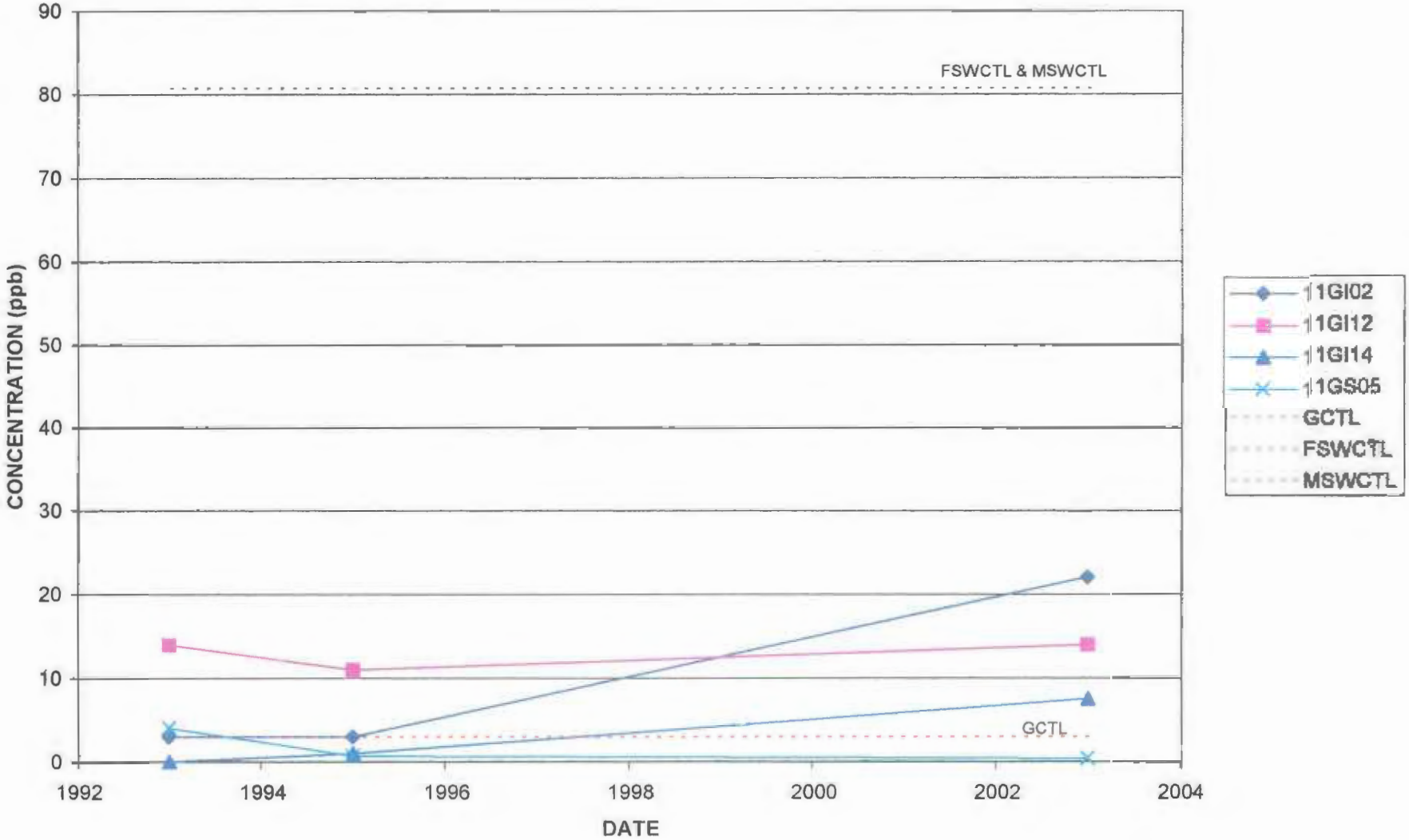
TS-26 TREND SUMMARIES OF 1,1,1-TRICHLOROETHANE IN SELECTED WELL



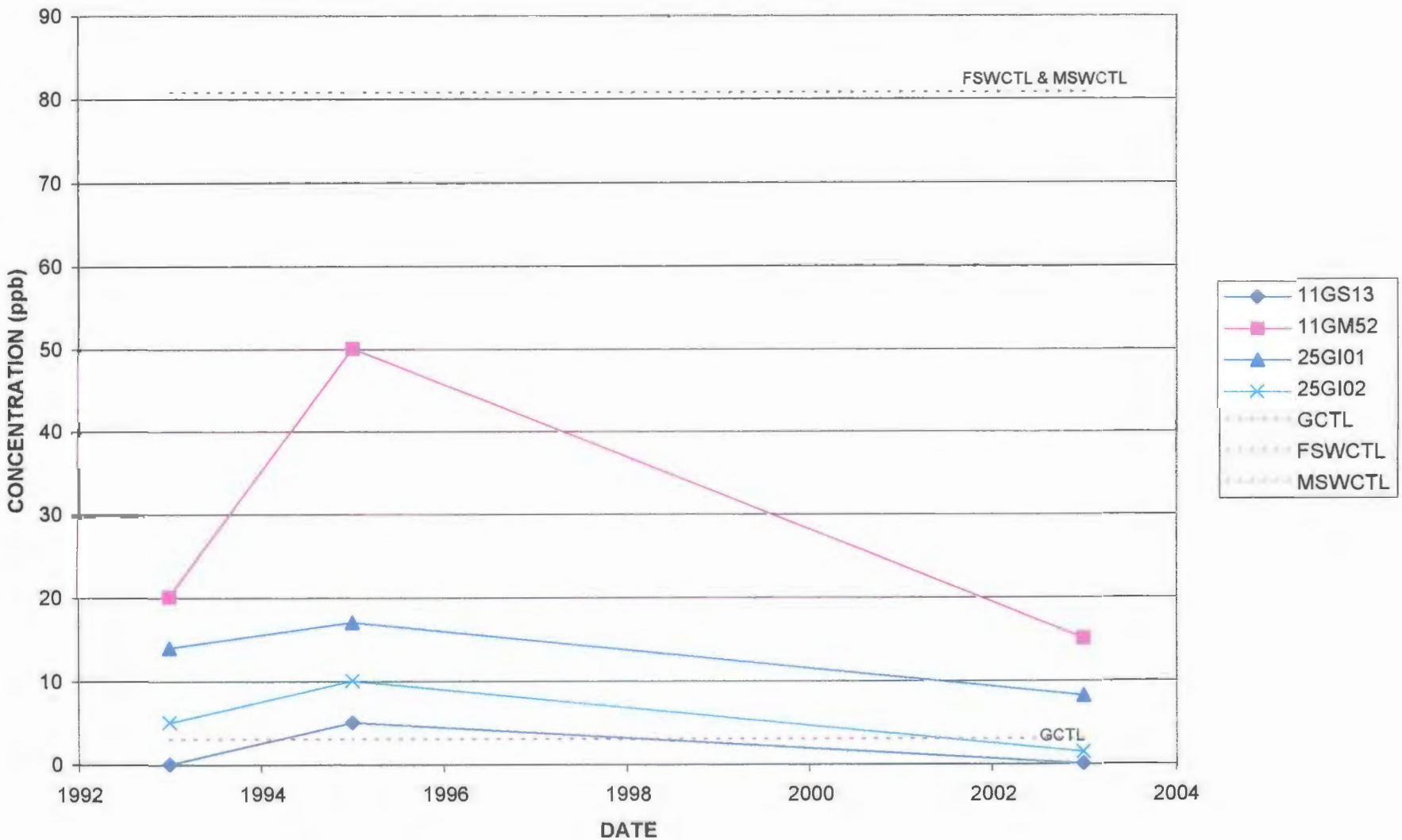
TS-27: TREND SUMMARIES OF 1,1,1-TRICHLOROETHANE IN SELECTED WELLS



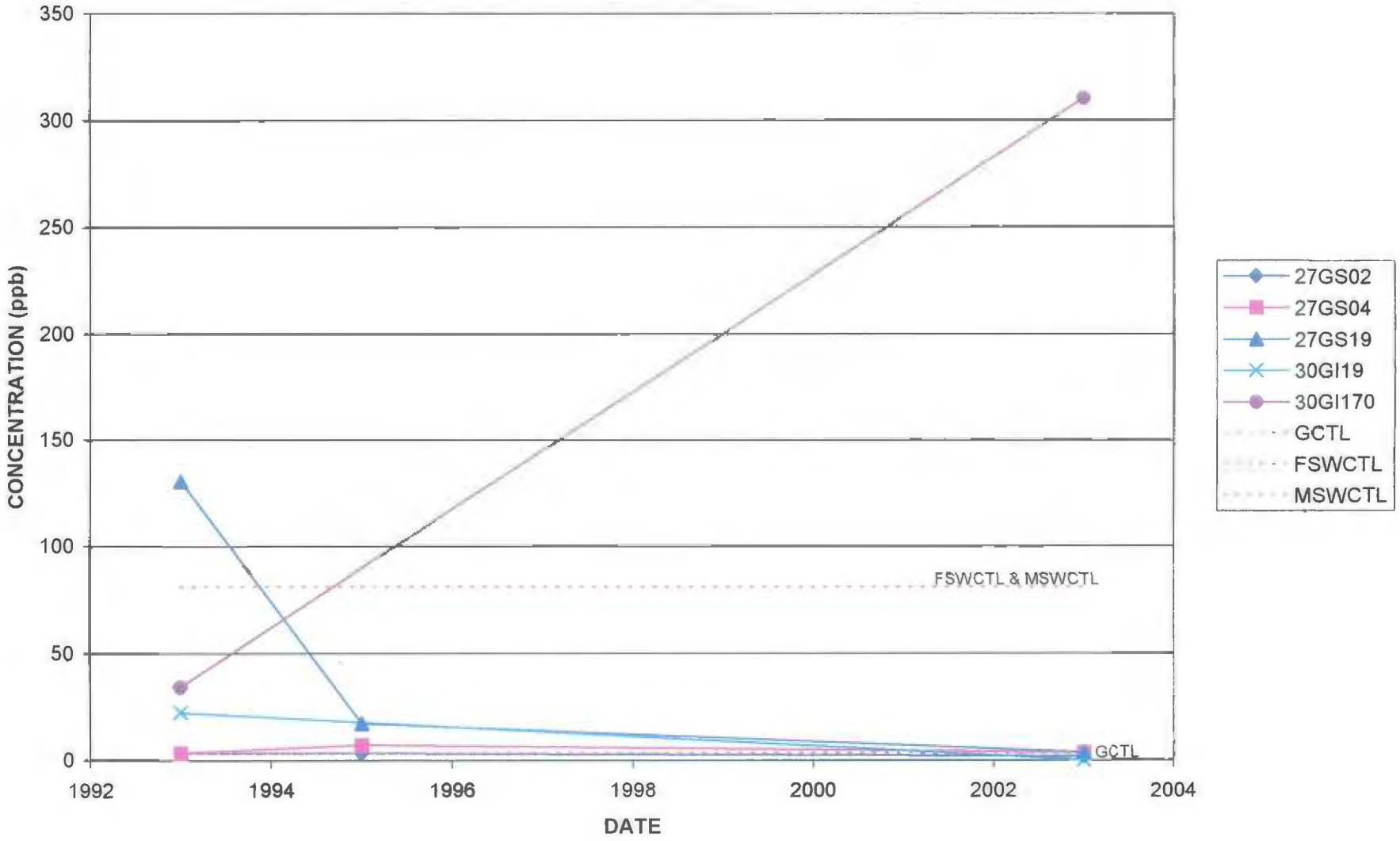
TS-28: TREND SUMMARIES OF TRICHLOROETHENE IN SELECTED WELLS



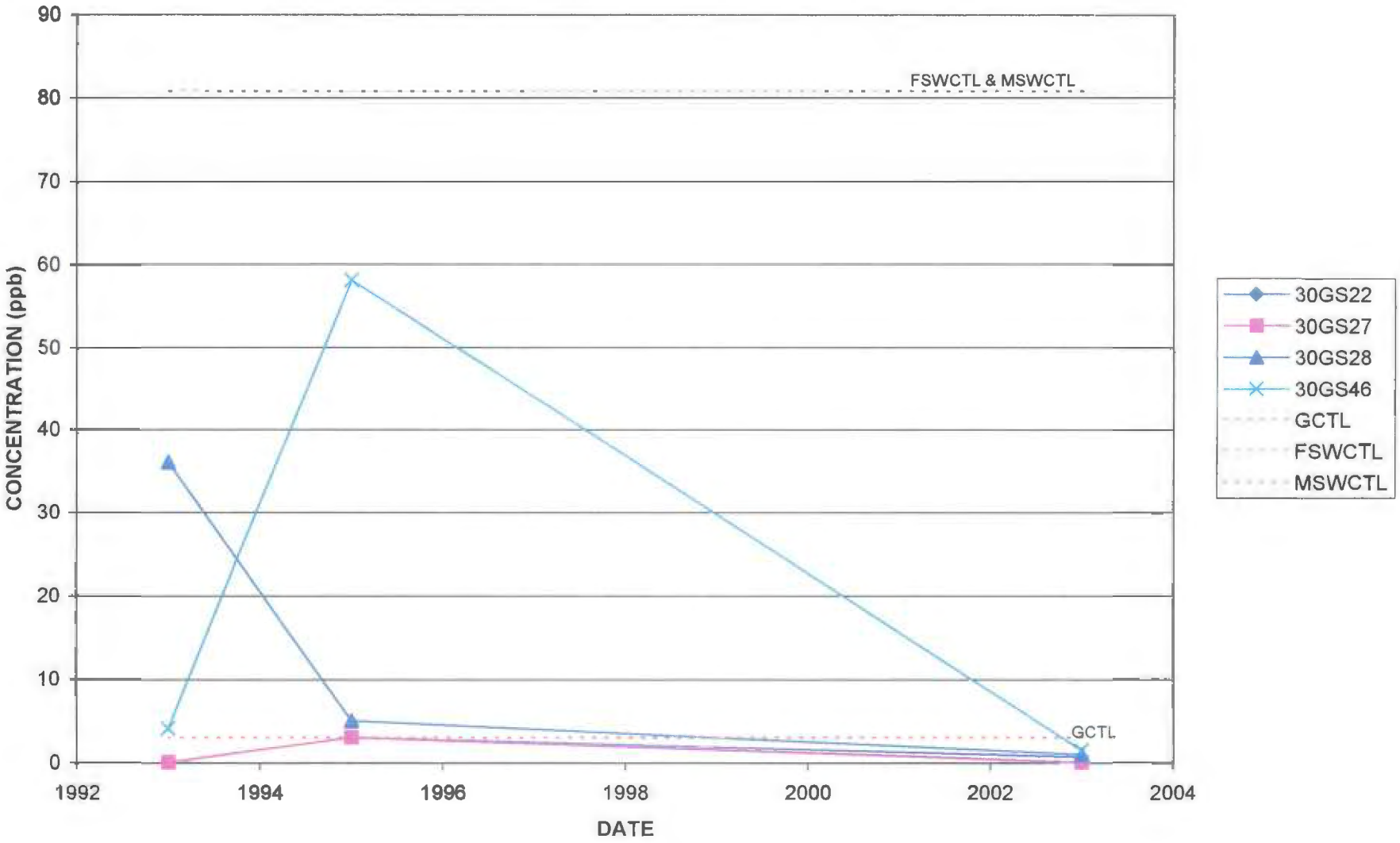
TS-29: TREND SUMMARIES FOR TRICHLOROETHENE IN SELECTED WELLS



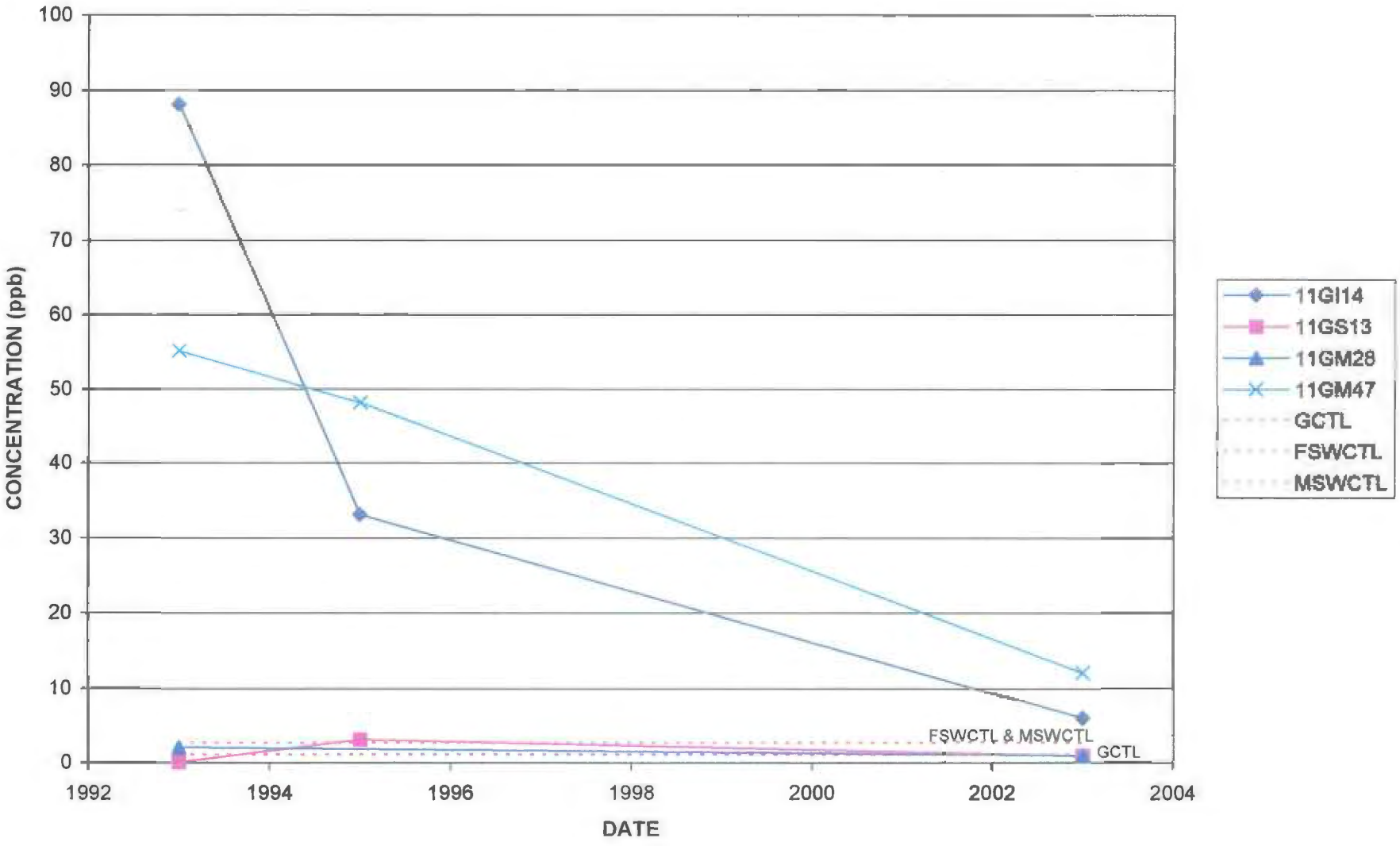
TS-30: TREND SUMMARIES FOR TRICHLOROETHENE IN SELECTED WELLS



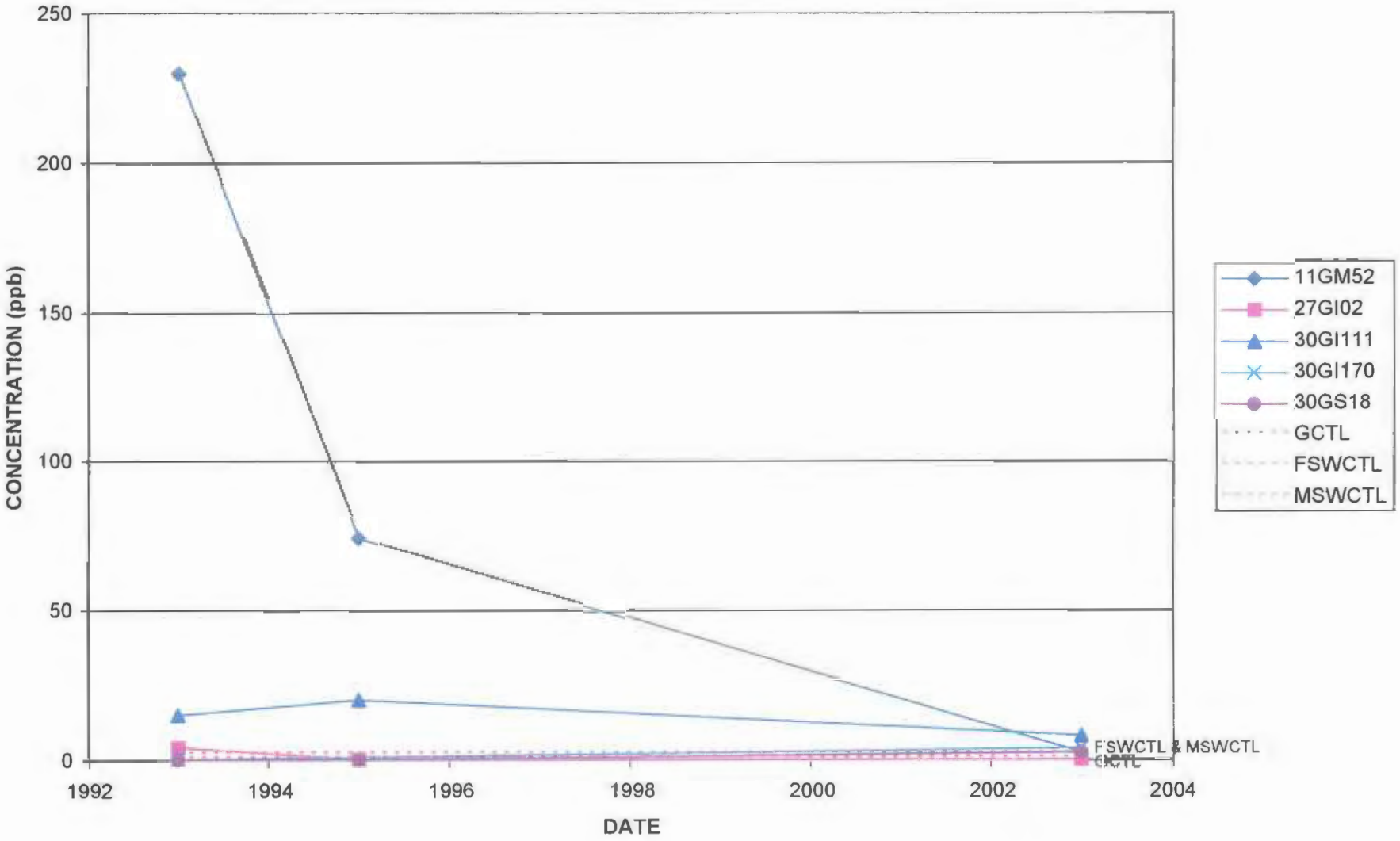
TS-31: TREND SUMMARIES FOR TRICHLOROETHENE IN SELECTED WELLS



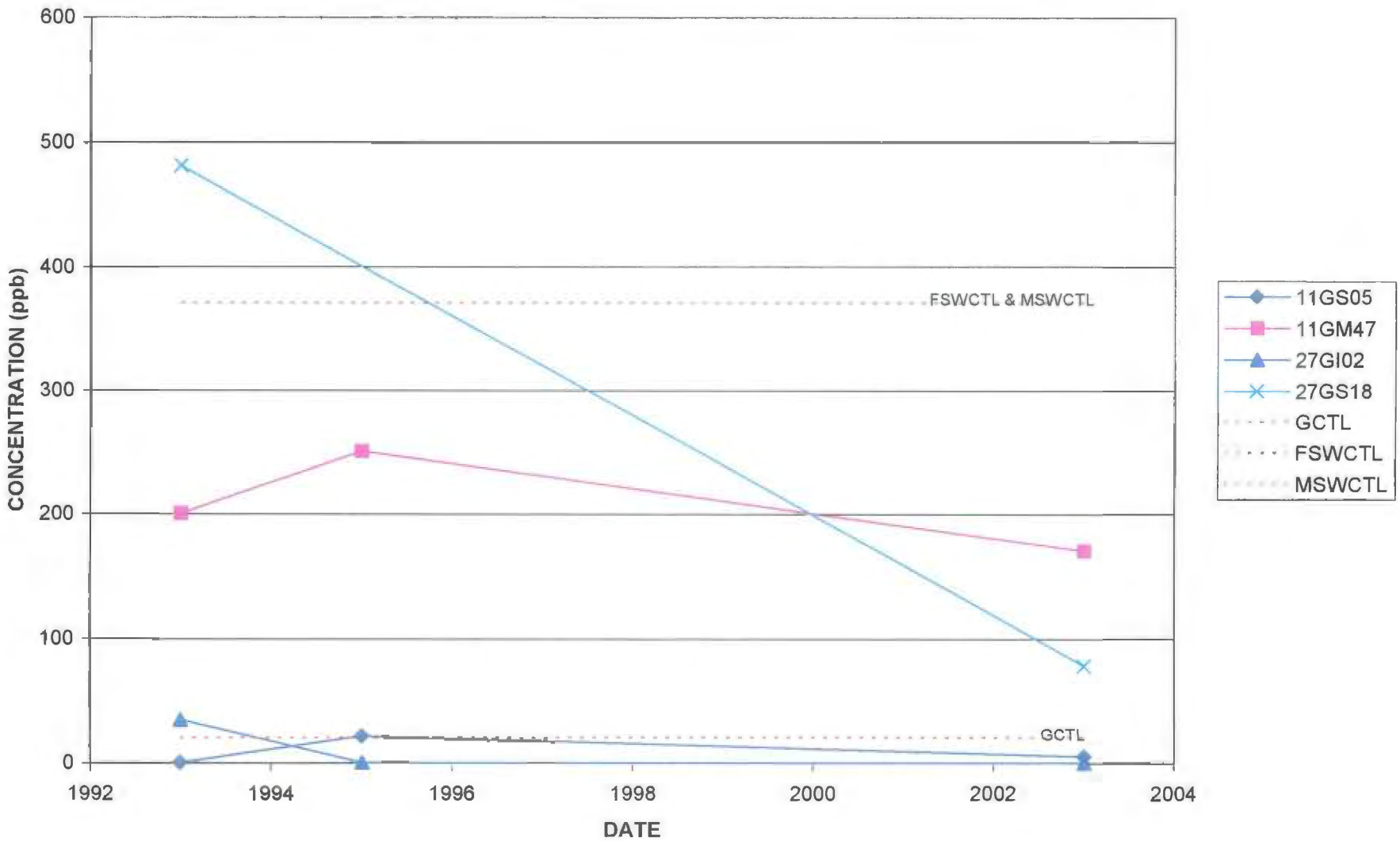
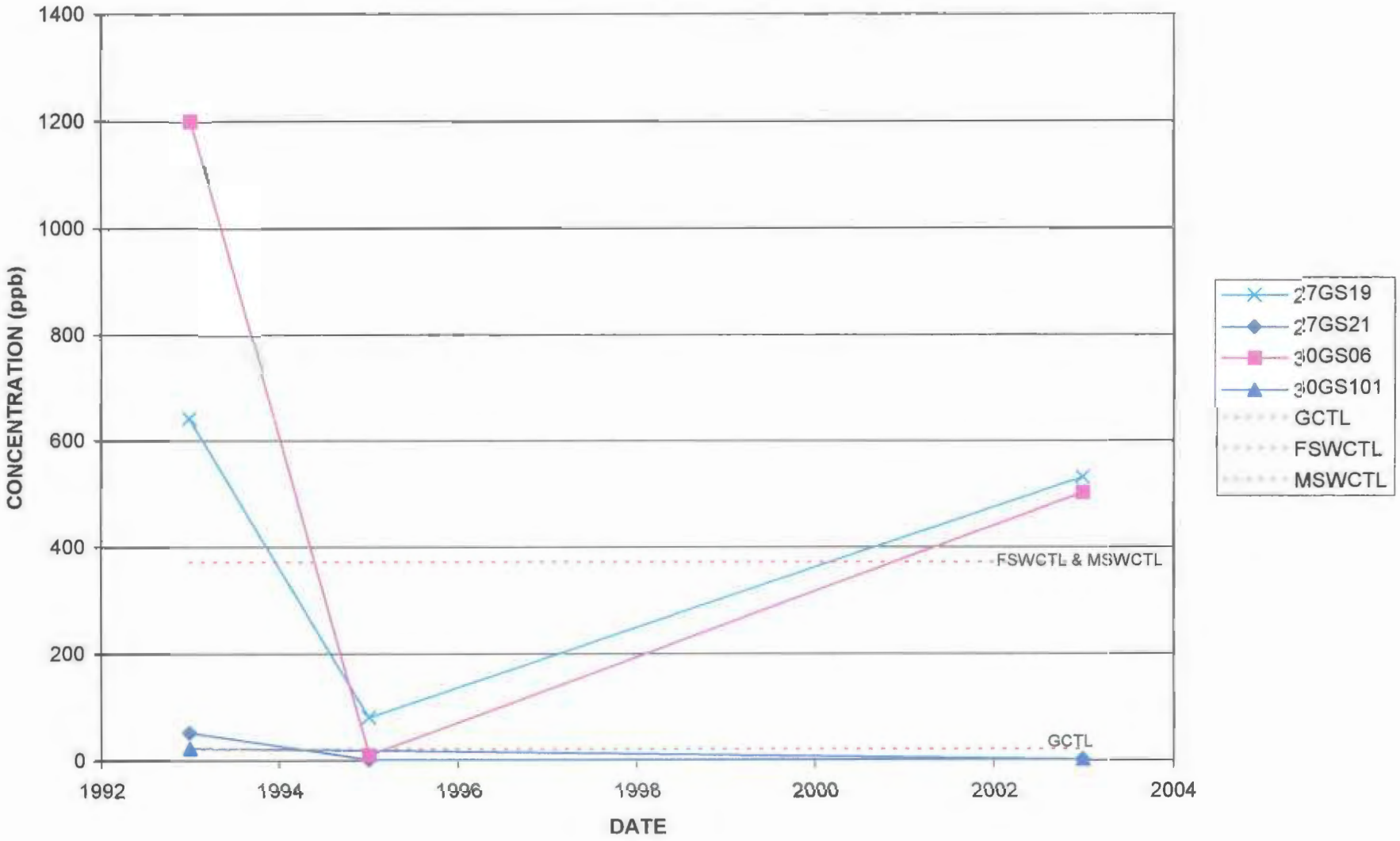
TS-32: TREND SUMMARIES FOR VINYL CHLORIDE IN SELECTED WELLS



TS-33: TREND SUMMARIES FOR VINYL CHLORIDE IN SELECTED WELLS



TS-34: TREND SUMMARIES FOR XYLENES (TOTAL) IN SELECTED WELLS



TS-35: TREND SUMMARIES FOR XYLENES (TOTAL) IN SELECTED WELLS