



A Waters Company

Thekkekalathil Chandrasekhar  
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***WP-207***



***Final Report***

## **WatR™ Pollution Proficiency Testing**

**WatR™ Pollution Study**

**Open Date: 04/16/12**

**Close Date: 05/31/12**

**Report Issued Date: 06/20/12**



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June 20, 2012

Thekkekalathil Chandrasekhar  
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Enclosed is your final report for ERA's WP-207 WatR™Pollution Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's WP-207 WatR™Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

Please note the following changes to our final reports:

- At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.
- Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (Quik™Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.

Thank you for your participation in ERA's WP-207 WatR™Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

Jay R. McBurney  
Quality Program Manager

attachments  
jrm



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| Report Recipient | Contact/Phone Number      | Reporting Type | Evaluation Type |
|------------------|---------------------------|----------------|-----------------|
| Florida          | Steve Arms / 904-791-1502 | All Analytes   | 2009 TNI        |



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## WP-207 Definitions & Study Discussion

**Study Dates: 04/16/12 - 05/31/12**

**Report Issued: 06/20/12**

### WP Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) tables. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2009 TNI Standards. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current USEPA/NELAC FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

|                |                                                       |
|----------------|-------------------------------------------------------|
| Acceptable     | = Reported Value falls within the Acceptance Limits.  |
| Not Acceptable | = Reported Value falls outside the Acceptance Limits. |
| No Evaluation  | = Reported Value cannot be evaluated.                 |
| Not Reported   | = No Value reported.                                  |

The Method Description is the method the laboratory reported to ERA.

### WP Study Discussion

ERA's WP-207 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's WP-207 WatR™Pollution study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the most current TNI FoPT tables.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's WP-207 WatR™Pollution study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.



# WP-207 Laboratory Exception Report

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2009 TNI Evaluation Check: There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations: There were no Not Acceptable evaluations for this study.



# **Final Report Results For Laboratory State of Florida DEP Chemistry Laboratory**



## **2009 TNI Evaluation Report**

Study: **WP-207**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP  
Chemistry Laboratory**

### **Inorganic Results**



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# WP-207 2009 TNI Evaluation Final Complete Report

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| TNI Analyte Code | Analyte | Units | Reported Value | Assigned Value | Acceptance Limits | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Minerals (cat# 581)

|      |                                 |          |      |      |             |              |                   |          |         |      |       |           |
|------|---------------------------------|----------|------|------|-------------|--------------|-------------------|----------|---------|------|-------|-----------|
| 1505 | Alkalinity as CaCO <sub>3</sub> | mg/L     | 45.4 | 46.9 | 40.4 - 53.8 | Acceptable   | SM2320B online    | 5/3/2012 | -0.0736 | 45.5 | 1.92  | JACKSON_R |
| 1575 | Chloride                        | mg/L     | 52.1 | 53.0 | 45.0 - 61.5 | Acceptable   | EPA 300.0 2.1     | 5/3/2012 | 0.240   | 51.6 | 2.19  | DEARMAN_G |
| 1610 | Conductivity at 25°C            | µmhos/cm | 316  | 336  | 299 - 373   | Acceptable   | EPA 120.1         | 5/3/2012 | -2.63   | 336  | 7.44  | JACKSON_R |
| 1730 | Fluoride                        | mg/L     | 3.61 | 3.68 | 3.10 - 4.27 | Acceptable   | SM4500F- C online | 5/3/2012 | 0.597   | 3.52 | 0.154 | JACKSON_R |
| 1125 | Potassium                       | mg/L     | 24.4 | 25.4 | 20.9 - 30.3 | Acceptable   | EPA 200.7 4.4     | 5/9/2012 | 0.128   | 24.2 | 1.12  | LUTZ_E    |
| 1155 | Sodium                          | mg/L     | 53.9 | 54.4 | 46.2 - 62.5 | Acceptable   | EPA 200.7 4.4     | 5/9/2012 | 0.302   | 53.1 | 2.76  | LUTZ_E    |
| 2000 | Sulfate                         | mg/L     | 21.0 | 21.9 | 17.1 - 26.1 | Acceptable   | EPA 300.0 2.1     | 5/3/2012 | 0.292   | 20.6 | 1.34  | DEARMAN_G |
| 1955 | Total Dissolved Solids at 180°C | mg/L     | 214  | 223  | 164 - 282   | Acceptable   | SM2540C online    | 5/7/2012 | -0.631  | 223  | 15.0  | LI_Y      |
| 1950 | Total Solids at 105°C           | mg/L     |      | 242  | 204 - 277   | Not Reported |                   |          |         | 229  | 12.4  |           |

## WP Hardness (cat# 580)

|      |                                       |      |      |      |             |              |                |          |       |      |      |        |
|------|---------------------------------------|------|------|------|-------------|--------------|----------------|----------|-------|------|------|--------|
| 1960 | Non-Filterable Residue (TSS)          | mg/L | 57.6 | 59.0 | 46.7 - 66.8 | Acceptable   | SM2540D online | 5/7/2012 | 0.604 | 55.8 | 2.93 | LI_Y   |
| 1035 | Calcium                               | mg/L | 89.5 | 88.0 | 78.8 - 99.5 | Acceptable   | EPA 200.7 4.4  | 5/9/2012 | 1.06  | 85.7 | 3.56 | LUTZ_E |
| 1085 | Magnesium                             | mg/L | 22.6 | 22.5 | 19.3 - 25.8 | Acceptable   | EPA 200.7 4.4  | 5/9/2012 | 0.531 | 22.0 | 1.07 | LUTZ_E |
| 1550 | Calcium Hardness as CaCO <sub>3</sub> | mg/L |      | 220  | 197 - 249   | Not Reported |                |          |       | 213  | 8.34 |        |
| 1755 | Total Hardness as CaCO <sub>3</sub>   | mg/L | 316  | 312  | 276 - 355   | Acceptable   | SM2340B online | 5/9/2012 | 1.33  | 303  | 9.57 | LUTZ_E |



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Simple Nutrients (cat# 584)

|      |                        |      |      |      |             |            |                  |          |         |      |       |           |
|------|------------------------|------|------|------|-------------|------------|------------------|----------|---------|------|-------|-----------|
| 1515 | Ammonia as N           | mg/L | 10.7 | 10.8 | 8.00 - 13.5 | Acceptable | EPA 350.1 2 1993 | 5/2/2012 | -0.0353 | 10.7 | 0.781 | KAUS_P    |
| 1820 | Nitrate + Nitrite as N | mg/L | 15.2 | 14.5 | 11.8 - 16.8 | Acceptable | EPA 353.2 2      | 5/2/2012 | 1.20    | 14.5 | 0.592 | DUNBAR_D  |
| 1810 | Nitrate as N           | mg/L | 14.8 | 14.5 | 11.3 - 17.5 | Acceptable | EPA 300.0 2.1    | 5/2/2012 | 0.594   | 14.4 | 0.592 | DEARMAN_G |
| 1870 | ortho-Phosphate as P   | mg/L | 3.40 | 3.52 | 2.89 - 4.18 | Acceptable | EPA 365.1 2      | 5/2/2012 | -0.838  | 3.54 | 0.167 | GADWAL_P  |

## WP Simple Nutrients (cat# 584)

|      |                        |      |      |      |             |              |             |          |      |      |       |            |
|------|------------------------|------|------|------|-------------|--------------|-------------|----------|------|------|-------|------------|
| 1515 | Ammonia as N           | mg/L |      | 10.8 | 8.00 - 13.5 | Not Reported |             |          |      | 10.7 | 0.781 |            |
| 1820 | Nitrate + Nitrite as N | mg/L |      | 14.5 | 11.8 - 16.8 | Not Reported |             |          |      | 14.5 | 0.592 |            |
| 1810 | Nitrate as N           | mg/L | 15.2 | 14.5 | 11.3 - 17.5 | Acceptable   | EPA 353.2 2 | 5/2/2012 | 1.27 | 14.4 | 0.592 | STEINBOC_B |
| 1870 | ortho-Phosphate as P   | mg/L |      | 3.52 | 2.89 - 4.18 | Not Reported |             |          |      | 3.54 | 0.167 |            |

## WP Complex Nutrients (cat# 579)

|      |                         |      |      |      |             |            |             |           |        |      |       |            |
|------|-------------------------|------|------|------|-------------|------------|-------------|-----------|--------|------|-------|------------|
| 1795 | Total Kjeldahl Nitrogen | mg/L | 6.59 | 6.34 | 4.27 - 8.34 | Acceptable | EPA 351.2 2 | 5/10/2012 | 0.263  | 6.46 | 0.480 | ARMOUR_C   |
| 1910 | Total phosphorus as P   | mg/L | 9.58 | 9.71 | 8.04 - 11.4 | Acceptable | EPA 365.1 2 | 5/7/2012  | -0.187 | 9.65 | 0.368 | FAIRCLOT_M |

## WP Nitrite (cat# 888)

|      |              |      |       |       |               |            |             |          |        |       |        |        |
|------|--------------|------|-------|-------|---------------|------------|-------------|----------|--------|-------|--------|--------|
| 1840 | Nitrite as N | mg/L | 0.750 | 0.767 | 0.599 - 0.927 | Acceptable | EPA 353.2 2 | 5/2/2012 | -0.419 | 0.765 | 0.0367 | KAUS_P |
|------|--------------|------|-------|-------|---------------|------------|-------------|----------|--------|-------|--------|--------|



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Demand (cat# 578)

|      |      |      |      |      |             |              |                |          |        |      |      |           |
|------|------|------|------|------|-------------|--------------|----------------|----------|--------|------|------|-----------|
| 1530 | BOD  | mg/L | 57.0 | 68.4 | 34.4 - 102  | Acceptable   | SM5210B online | 5/3/2012 | -1.19  | 69.4 | 10.4 | WOODS_J   |
| 1555 | CBOD | mg/L | 61.0 | 58.9 | 26.4 - 91.3 | Acceptable   | SM5210B online | 5/3/2012 | -0.283 | 64.3 | 11.8 | WOODS_J   |
| 1565 | COD  | mg/L |      | 110  | 82.3 - 128  | Not Reported |                |          |        | 109  | 7.19 |           |
| 2040 | TOC  | mg/L | 42.3 | 43.6 | 36.4 - 50.3 | Acceptable   | SM5310B online | 5/4/2012 | -0.721 | 44.1 | 2.47 | JACKSON_R |



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Trace Metals (cat# 586)

|      |            |      |      |      |             |            |               |           |         |      |      |        |
|------|------------|------|------|------|-------------|------------|---------------|-----------|---------|------|------|--------|
| 1000 | Aluminum   | µg/L | 316  | 292  | 212 - 376   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.753   | 302  | 18.4 | LUTZ_E |
| 1005 | Antimony   | µg/L | 603  | 686  | 484 - 824   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | -1.73   | 667  | 37.2 | LUTZ_E |
| 1010 | Arsenic    | µg/L | 188  | 182  | 149 - 215   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.533   | 181  | 12.3 | LUTZ_E |
| 1015 | Barium     | µg/L | 2080 | 2080 | 1810 - 2350 | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.0636  | 2070 | 90.2 | LUTZ_E |
| 1020 | Beryllium  | µg/L | 177  | 169  | 143 - 191   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.546   | 173  | 7.88 | LUTZ_E |
| 1025 | Boron      | µg/L | 1220 | 1230 | 1010 - 1430 | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.0597  | 1220 | 48.7 | LUTZ_E |
| 1030 | Cadmium    | µg/L | 386  | 393  | 335 - 447   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.141   | 384  | 14.5 | LUTZ_E |
| 1040 | Chromium   | µg/L | 611  | 611  | 532 - 691   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | -0.0438 | 612  | 23.4 | LUTZ_E |
| 1050 | Cobalt     | µg/L | 295  | 290  | 254 - 326   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.0944  | 294  | 11.4 | LUTZ_E |
| 1055 | Copper     | µg/L | 587  | 569  | 512 - 626   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.530   | 574  | 24.6 | LUTZ_E |
| 1070 | Iron       | µg/L | 498  | 462  | 406 - 526   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 1.28    | 469  | 22.5 | LUTZ_E |
| 1075 | Lead       | µg/L | 261  | 259  | 222 - 295   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.0716  | 260  | 11.0 | LUTZ_E |
| 1090 | Manganese  | µg/L | 1340 | 1280 | 1150 - 1420 | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.337   | 1320 | 53.3 | LUTZ_E |
| 1100 | Molybdenum | µg/L | 327  | 330  | 278 - 379   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | -0.0645 | 328  | 14.9 | LUTZ_E |
| 1105 | Nickel     | µg/L | 284  | 279  | 247 - 315   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.419   | 279  | 12.4 | LUTZ_E |
| 1140 | Selenium   | µg/L | 1060 | 1050 | 835 - 1220  | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.420   | 1040 | 48.4 | LUTZ_E |
| 1150 | Silver     | µg/L | 322  | 333  | 286 - 382   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | -0.719  | 335  | 18.0 | LUTZ_E |
| 1160 | Strontium  | µg/L | 244  | 245  | 213 - 278   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.208   | 242  | 9.61 | LUTZ_E |
| 1165 | Thallium   | µg/L | 486  | 487  | 390 - 586   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | -0.0328 | 487  | 23.1 | LUTZ_E |
| 1185 | Vanadium   | µg/L | 457  | 455  | 398 - 509   | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.319   | 452  | 16.0 | LUTZ_E |



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

**WP Trace Metals (cat# 586) (Continued)**

|      |      |      |     |     |           |            |               |           |       |     |      |        |
|------|------|------|-----|-----|-----------|------------|---------------|-----------|-------|-----|------|--------|
| 1190 | Zinc | µg/L | 195 | 191 | 162 - 225 | Acceptable | EPA 200.7 4.4 | 5/10/2012 | 0.172 | 193 | 9.37 | LUTZ_E |
|------|------|------|-----|-----|-----------|------------|---------------|-----------|-------|-----|------|--------|



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Trace Metals (cat# 586)

|      |            |      |      |      |             |              |               |           |         |      |      |            |
|------|------------|------|------|------|-------------|--------------|---------------|-----------|---------|------|------|------------|
| 1000 | Aluminum   | µg/L | 296  | 292  | 212 - 376   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.331  | 302  | 18.4 | PETERSON_C |
| 1005 | Antimony   | µg/L | 628  | 686  | 484 - 824   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -1.05   | 667  | 37.2 | PETERSON_C |
| 1010 | Arsenic    | µg/L | 182  | 182  | 149 - 215   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | 0.0463  | 181  | 12.3 | PETERSON_C |
| 1015 | Barium     | µg/L | 2070 | 2080 | 1810 - 2350 | Acceptable   | EPA 200.8 5.4 | 5/9/2012  | -0.0473 | 2070 | 90.2 | PETERSON_C |
| 1020 | Beryllium  | µg/L | 175  | 169  | 143 - 191   | Acceptable   | EPA 200.8 5.4 | 5/11/2012 | 0.292   | 173  | 7.88 | PETERSON_C |
| 1025 | Boron      | µg/L |      | 1230 | 1010 - 1430 | Not Reported |               |           |         | 1220 | 48.7 |            |
| 1030 | Cadmium    | µg/L | 376  | 393  | 335 - 447   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.549  | 384  | 14.5 | PETERSON_C |
| 1040 | Chromium   | µg/L | 600  | 611  | 532 - 691   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.513  | 612  | 23.4 | PETERSON_C |
| 1050 | Cobalt     | µg/L | 288  | 290  | 254 - 326   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.518  | 294  | 11.4 | PETERSON_C |
| 1055 | Copper     | µg/L | 561  | 569  | 512 - 626   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.53   | 574  | 24.6 | PETERSON_C |
| 1070 | Iron       | µg/L |      | 462  | 406 - 526   | Not Reported |               |           |         | 469  | 22.5 |            |
| 1075 | Lead       | µg/L | 258  | 259  | 222 - 295   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.202  | 260  | 11.0 | PETERSON_C |
| 1090 | Manganese  | µg/L | 1340 | 1280 | 1150 - 1420 | Acceptable   | EPA 200.8 5.4 | 5/9/2012  | 0.337   | 1320 | 53.3 | PETERSON_C |
| 1100 | Molybdenum | µg/L | 320  | 330  | 278 - 379   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.533  | 328  | 14.9 | PETERSON_C |
| 1105 | Nickel     | µg/L | 287  | 279  | 247 - 315   | Acceptable   | EPA 200.8 5.4 | 5/9/2012  | 0.660   | 279  | 12.4 | PETERSON_C |
| 1140 | Selenium   | µg/L | 1020 | 1050 | 835 - 1220  | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.407  | 1040 | 48.4 | PETERSON_C |
| 1150 | Silver     | µg/L | 328  | 333  | 286 - 382   | Acceptable   | EPA 200.8 5.4 | 5/10/2012 | -0.387  | 335  | 18.0 | PETERSON_C |
| 1160 | Strontium  | µg/L |      | 245  | 213 - 278   | Not Reported |               |           |         | 242  | 9.61 |            |
| 1165 | Thallium   | µg/L | 496  | 487  | 390 - 586   | Acceptable   | EPA 200.8 5.4 | 5/9/2012  | 0.401   | 487  | 23.1 | PETERSON_C |
| 1185 | Vanadium   | µg/L |      | 455  | 398 - 509   | Not Reported |               |           |         | 452  | 16.0 |            |



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A Waters Company

# WP-207 2009 TNI Evaluation Final Complete Report

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## WP Trace Metals (cat# 586) (Continued)

|      |      |      |     |     |           |            |               |           |        |     |      |            |
|------|------|------|-----|-----|-----------|------------|---------------|-----------|--------|-----|------|------------|
| 1190 | Zinc | µg/L | 191 | 191 | 162 - 225 | Acceptable | EPA 200.8 5.4 | 5/10/2012 | -0.255 | 193 | 9.37 | PETERSON_C |
|------|------|------|-----|-----|-----------|------------|---------------|-----------|--------|-----|------|------------|

## WP Mercury (cat# 574)

|      |         |      |      |      |             |            |             |          |        |      |       |          |
|------|---------|------|------|------|-------------|------------|-------------|----------|--------|------|-------|----------|
| 1095 | Mercury | µg/L | 6.94 | 6.99 | 4.31 - 9.55 | Acceptable | EPA 245.1 3 | 5/4/2012 | -0.128 | 7.02 | 0.672 | ACOSTA_M |
|------|---------|------|------|------|-------------|------------|-------------|----------|--------|------|-------|----------|

## WP Low-Level Mercury (cat# 896)

|      |                   |      |      |      |             |            |           |           |        |      |      |            |
|------|-------------------|------|------|------|-------------|------------|-----------|-----------|--------|------|------|------------|
| 1095 | Low Level Mercury | ng/L | 35.3 | 36.4 | 23.8 - 48.7 | Acceptable | EPA 1631E | 4/26/2012 | -0.494 | 37.3 | 4.02 | TOPOLSKI_B |
|------|-------------------|------|------|------|-------------|------------|-----------|-----------|--------|------|------|------------|

## WP Tin & Titanium (cat# 573)

|      |          |      |      |      |             |            |               |          |        |      |      |        |
|------|----------|------|------|------|-------------|------------|---------------|----------|--------|------|------|--------|
| 1175 | Tin      | µg/L | 2030 | 1980 | 1560 - 2400 | Acceptable | EPA 200.7 4.4 | 5/9/2012 | 0.681  | 1960 | 105  | LUTZ_E |
| 1180 | Titanium | µg/L | 223  | 228  | 196 - 257   | Acceptable | EPA 200.7 4.4 | 5/9/2012 | -0.331 | 226  | 10.0 | LUTZ_E |

## WP Color (cat# 882)

|      |       |          |      |      |             |            |                |           |        |      |      |           |
|------|-------|----------|------|------|-------------|------------|----------------|-----------|--------|------|------|-----------|
| 1605 | Color | PC units | 48.2 | 50.0 | 35.2 - 60.8 | Acceptable | SM2120B online | 5/15/2012 | -0.229 | 49.3 | 4.70 | JACKSON_R |
|------|-------|----------|------|------|-------------|------------|----------------|-----------|--------|------|------|-----------|

## WP Turbidity (cat# 893)

|      |           |     |      |      |             |            |             |          |        |      |       |        |
|------|-----------|-----|------|------|-------------|------------|-------------|----------|--------|------|-------|--------|
| 2055 | Turbidity | NTU | 10.4 | 10.4 | 8.45 - 12.4 | Acceptable | EPA 180.1 2 | 5/2/2012 | 0.0923 | 10.3 | 0.573 | FACH_B |
|------|-----------|-----|------|------|-------------|------------|-------------|----------|--------|------|-------|--------|

## WP Total Cyanide (cat# 588)

|      |                |      |       |       |              |            |           |           |        |       |        |          |
|------|----------------|------|-------|-------|--------------|------------|-----------|-----------|--------|-------|--------|----------|
| 1645 | Cyanide, total | mg/L | 0.779 | 0.827 | 0.528 - 1.12 | Acceptable | EPA 335.4 | 5/10/2012 | -0.411 | 0.813 | 0.0825 | BRYANT_V |
|------|----------------|------|-------|-------|--------------|------------|-----------|-----------|--------|-------|--------|----------|

## WP Silica (cat# 890)

|      |                |      |      |      |             |            |               |           |      |      |      |         |
|------|----------------|------|------|------|-------------|------------|---------------|-----------|------|------|------|---------|
| 1990 | Silica as SiO2 | mg/L | 83.8 | 78.4 | 58.8 - 98.0 | Acceptable | EPA 200.7 4.4 | 5/11/2012 | 1.45 | 76.4 | 5.07 | AYRES_J |
|------|----------------|------|------|------|-------------|------------|---------------|-----------|------|------|------|---------|



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|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|
|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|

## WP Sulfide (cat# 891)

|      |         |      |      |      |             |            |                    |           |        |      |       |           |
|------|---------|------|------|------|-------------|------------|--------------------|-----------|--------|------|-------|-----------|
| 2005 | Sulfide | mg/L | 2.01 | 3.57 | 1.18 - 5.46 | Acceptable | SM4500S2- D online | 5/11/2012 | -0.684 | 2.54 | 0.776 | SIMMONS_D |
|------|---------|------|------|------|-------------|------------|--------------------|-----------|--------|------|-------|-----------|



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## **2009 TNI Evaluation Report**

Study: **WP-207**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP  
Chemistry Laboratory**

### **Organic Results**



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|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|
|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|

## WP Volatiles (cat# 830)

|      |                                    |      |         |        |             |              |                |           |        |      |      |            |
|------|------------------------------------|------|---------|--------|-------------|--------------|----------------|-----------|--------|------|------|------------|
| 4315 | Acetone                            | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4320 | Acetonitrile                       | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4325 | Acrolein                           | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4340 | Acrylonitrile                      | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4375 | Benzene                            | µg/L | 33.3    | 32.6   | 23.0 - 42.1 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.401  | 32.0 | 3.33 | BOOESHAG_F |
| 4395 | Bromodichloromethane               | µg/L | 53.0    | 51.0   | 36.0 - 68.8 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.188  | 52.0 | 5.02 | BOOESHAG_F |
| 4400 | Bromoform                          | µg/L | < 0.500 | < 5.60 | 0.00 - 5.60 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |        |      |      | BOOESHAG_F |
| 4950 | Bromomethane                       | µg/L | < 0.500 | < 8.00 | 0.00 - 8.00 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |        |      |      | BOOESHAG_F |
| 4410 | 2-Butanone (MEK)                   | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 5000 | tert-Butyl methyl ether (MTBE)     | µg/L | 45.6    | 43.5   | 28.7 - 59.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.197  | 44.5 | 5.34 | BOOESHAG_F |
| 4450 | Carbon disulfide                   | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4455 | Carbon tetrachloride               | µg/L | 26.8    | 25.5   | 14.4 - 35.2 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.518  | 25.1 | 3.34 | BOOESHAG_F |
| 4475 | Chlorobenzene                      | µg/L | 23.6    | 21.5   | 15.4 - 27.4 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 1.05   | 21.5 | 1.96 | BOOESHAG_F |
| 4575 | Chlorodibromomethane               | µg/L | < 0.200 | < 7.20 | 0.00 - 7.20 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |        |      |      | BOOESHAG_F |
| 4485 | Chloroethane                       | µg/L | < 0.500 | < 8.00 | 0.00 - 8.00 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |        |      |      | BOOESHAG_F |
| 4500 | 2-Chloroethylvinylether            | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4505 | Chloroform                         | µg/L | 48.2    | 48.4   | 33.4 - 62.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | -0.159 | 49.0 | 5.03 | BOOESHAG_F |
| 4960 | Chloromethane                      | µg/L | 24.5    | 21.0   | 8.40 - 33.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.352  | 22.9 | 4.55 | BOOESHAG_F |
| 4570 | 1,2-Dibromo-3-chloropropane (DBCP) | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |
| 4585 | 1,2-Dibromoethane (EDB)            | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |        |      |      |            |



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Volatiles (cat# 830) (Continued)

|      |                                    |      |         |        |             |              |                |           |       |      |      |            |
|------|------------------------------------|------|---------|--------|-------------|--------------|----------------|-----------|-------|------|------|------------|
| 4595 | Dibromomethane                     | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |       |      |      |            |
| 4610 | 1,2-Dichlorobenzene                | µg/L | 24.5    | 19.4   | 12.9 - 25.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 2.39  | 20.0 | 1.87 | BOOESHAG_F |
| 4615 | 1,3-Dichlorobenzene                | µg/L | < 0.500 | < 5.20 | 0.00 - 5.20 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4620 | 1,4-Dichlorobenzene                | µg/L | 22.7    | 19.1   | 12.5 - 25.2 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 1.55  | 19.2 | 2.22 | BOOESHAG_F |
| 4625 | Dichlorodifluoromethane (Freon 12) | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |       |      |      |            |
| 4630 | 1,1-Dichloroethane                 | µg/L | 39.6    | 35.8   | 22.7 - 49.2 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.649 | 37.0 | 4.07 | BOOESHAG_F |
| 4635 | 1,2-Dichloroethane                 | µg/L | 44.9    | 43.1   | 29.9 - 57.1 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.194 | 44.1 | 4.08 | BOOESHAG_F |
| 4640 | 1,1-Dichloroethylene               | µg/L | < 0.500 | < 6.10 | 0.00 - 6.10 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4645 | cis-1,2-Dichloroethylene           | µg/L | < 0.500 | < 7.00 | 0.00 - 7.00 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4700 | trans-1,2-Dichloroethylene         | µg/L | 20.5    | 18.6   | 9.28 - 28.4 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.549 | 19.2 | 2.34 | BOOESHAG_F |
| 4655 | 1,2-Dichloropropane                | µg/L | < 0.500 | < 5.90 | 0.00 - 5.90 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4680 | cis-1,3-Dichloropropylene          | µg/L | < 0.500 | < 5.10 | 0.00 - 5.10 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4685 | trans-1,3-Dichloropropylene        | µg/L | < 0.200 | < 3.90 | 0.00 - 3.90 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4765 | Ethylbenzene                       | µg/L | < 0.500 | < 5.80 | 0.00 - 5.80 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |       |      |      | BOOESHAG_F |
| 4835 | Hexachlorobutadiene                | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |       |      |      |            |
| 4860 | 2-Hexanone                         | µg/L | 54.9    | 79.0   | 36.6 - 120  | Acceptable   | EPA 8260C 2006 | 5/10/2012 | -1.46 | 76.4 | 14.8 | BOOESHAG_F |
| 5005 | Naphthalene                        | µg/L |         | 20.4   | 8.92 - 29.8 | Not Reported |                |           |       | 20.3 | 3.44 |            |

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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Volatiles (cat# 830) (Continued)

|      |                              |      |         |        |             |              |                |           |         |      |      |            |
|------|------------------------------|------|---------|--------|-------------|--------------|----------------|-----------|---------|------|------|------------|
| 4975 | Methylene chloride           | µg/L | 29.8    | 30.4   | 18.4 - 43.3 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | -0.119  | 30.2 | 3.80 | BOOESHAG_F |
| 4995 | 4-Methyl-2-pentanone (MIBK)  | µg/L | < 4.00  | < 4.30 | 0.00 - 4.30 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |         |      |      | BOOESHAG_F |
| 5100 | Styrene                      | µg/L | < 0.500 | < 13.0 | 0.00 - 13.0 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |         |      |      | BOOESHAG_F |
| 5105 | 1,1,1,2-Tetrachloroethane    | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |         |      |      |            |
| 5110 | 1,1,2,2-Tetrachloroethane    | µg/L | 39.1    | 31.5   | 17.0 - 48.2 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 1.46    | 32.4 | 4.58 | BOOESHAG_F |
| 5115 | Tetrachloroethylene          | µg/L | 27.2    | 25.7   | 13.5 - 33.9 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 1.01    | 23.9 | 3.23 | BOOESHAG_F |
| 5140 | Toluene                      | µg/L | 28.7    | 29.6   | 20.6 - 37.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | -0.347  | 29.7 | 2.77 | BOOESHAG_F |
| 5155 | 1,2,4-Trichlorobenzene       | µg/L |         | 34.1   | 13.3 - 46.5 | Not Reported |                |           |         | 34.3 | 5.64 |            |
| 5160 | 1,1,1-Trichloroethane        | µg/L | 41.3    | 40.0   | 25.0 - 53.0 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.442   | 39.4 | 4.38 | BOOESHAG_F |
| 5165 | 1,1,2-Trichloroethane        | µg/L | 51.2    | 51.0   | 35.4 - 66.7 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.00594 | 51.2 | 4.30 | BOOESHAG_F |
| 5170 | Trichloroethylene            | µg/L | 20.0    | 19.4   | 12.2 - 26.2 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.247   | 19.4 | 2.27 | BOOESHAG_F |
| 5175 | Trichlorofluoromethane       | µg/L | 39.2    | 32.9   | 13.2 - 52.6 | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.688   | 34.7 | 6.52 | BOOESHAG_F |
| 5180 | 1,2,3-Trichloropropane (TCP) | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |         |      |      |            |
| 5225 | Vinyl acetate                | µg/L |         | < 5.00 | 0.00 - 5.00 | Not Reported |                |           |         |      |      |            |
| 5235 | Vinyl chloride               | µg/L | < 0.500 | < 8.00 | 0.00 - 8.00 | Acceptable   | EPA 8260C 2006 | 5/10/2012 |         |      |      | BOOESHAG_F |
| 5260 | Xylenes, total               | µg/L | 89.8    | 84.0   | 47.7 - 114  | Acceptable   | EPA 8260C 2006 | 5/10/2012 | 0.656   | 84.5 | 8.01 | BOOESHAG_F |

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## WP Chlorinated Acid Herbicides (cat# 829)

|      |                          |      |      |        |              |              |                 |          |         |      |       |         |
|------|--------------------------|------|------|--------|--------------|--------------|-----------------|----------|---------|------|-------|---------|
| 8505 | Acifluorfen              | µg/L |      | 5.38   | 0.753 - 7.92 | Not Reported |                 |          |         | 3.27 | 1.39  |         |
| 8530 | Bentazon                 | µg/L |      | 5.24   | 0.524 - 9.52 | Not Reported |                 |          |         | 2.71 | 1.51  |         |
| 8540 | Chloramben               | µg/L |      | 5.19   | 0.519 - 7.90 | Not Reported |                 |          |         | 3.02 | 2.04  |         |
| 8545 | 2,4-D                    | µg/L | 5.80 | 6.31   | 0.631 - 10.2 | Acceptable   | DEPSOP:LC-001-2 | 5/8/2012 | -0.0728 | 5.93 | 1.81  | REDDY_S |
| 8560 | 2,4-DB                   | µg/L |      | 2.19   | 0.219 - 3.72 | Not Reported |                 |          |         | 2.11 | 0.466 |         |
| 8550 | Dacthal diacid (DCPA)    | µg/L |      | 2.00   | 0.252 - 2.85 | Not Reported |                 |          |         | 1.63 | 0.378 |         |
| 8555 | Dalapon                  | µg/L |      | 6.26   | 0.626 - 9.88 | Not Reported |                 |          |         | 4.01 | 1.51  |         |
| 8595 | Dicamba                  | µg/L | 2.10 | 2.68   | 0.268 - 4.10 | Acceptable   | DEPSOP:LC-001-2 | 5/8/2012 | -0.576  | 2.47 | 0.642 | REDDY_S |
| 8600 | 3,5-Dichlorobenzoic acid | µg/L |      | 4.80   | 1.01 - 7.23  | Not Reported |                 |          |         | 3.65 | 1.06  |         |
| 8605 | Dichlorprop              | µg/L |      | 5.94   | 1.02 - 8.92  | Not Reported |                 |          |         | 4.97 | 1.41  |         |
| 8620 | Dinoseb                  | µg/L |      | 3.35   | 0.335 - 5.06 | Not Reported |                 |          |         | 2.11 | 0.226 |         |
| 7775 | MCPA                     | µg/L |      | < 10.0 | 0.00 - 10.0  | Not Reported |                 |          |         |      |       |         |
| 7780 | MCPP                     | µg/L |      | < 10.0 | 0.00 - 10.0  | Not Reported |                 |          |         |      |       |         |
| 6500 | 4-Nitrophenol            | µg/L |      | 4.12   | 0.412 - 6.33 | Not Reported |                 |          |         | 3.01 | 1.31  |         |
| 6605 | Pentachlorophenol        | µg/L |      | 2.25   | 0.290 - 3.40 | Not Reported |                 |          |         | 1.86 | 0.513 |         |
| 8645 | Picloram                 | µg/L |      | 8.94   | 0.894 - 14.5 | Not Reported |                 |          |         | 6.64 | 2.90  |         |
| 8655 | 2,4,5-T                  | µg/L | 5.48 | 6.32   | 0.632 - 9.32 | Acceptable   | DEPSOP:LC-001-2 | 5/8/2012 | -0.15   | 5.78 | 1.98  | REDDY_S |
| 8650 | 2,4,5-TP (Silvex)        | µg/L | 2.24 | 2.87   | 0.287 - 4.38 | Acceptable   | DEPSOP:LC-001-2 | 5/8/2012 | -0.574  | 2.70 | 0.801 | REDDY_S |

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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP PCBs in Water (cat# 832S)

|      |              |      |         |         |              |            |           |           |        |      |       |         |
|------|--------------|------|---------|---------|--------------|------------|-----------|-----------|--------|------|-------|---------|
| 8880 | Aroclor 1016 | µg/L | < 0.100 | < 1.40  | 0.00 - 1.40  | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |
| 8885 | Aroclor 1221 | µg/L | < 0.100 | < 0.130 | 0.00 - 0.130 | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |
| 8890 | Aroclor 1232 | µg/L | < 0.100 | < 0.610 | 0.00 - 0.610 | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |
| 8895 | Aroclor 1242 | µg/L | < 0.100 | < 1.40  | 0.00 - 1.40  | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |
| 8900 | Aroclor 1248 | µg/L | < 0.100 | < 0.600 | 0.00 - 0.600 | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |
| 8905 | Aroclor 1254 | µg/L | 3.80    | 4.24    | 1.97 - 5.57  | Acceptable | EPA 8082A | 4/28/2012 | 0.0689 | 3.74 | 0.883 | NAGAR_V |
| 8910 | Aroclor 1260 | µg/L | < 0.100 | < 0.620 | 0.00 - 0.620 | Acceptable | EPA 8082A | 4/28/2012 |        |      |       | NAGAR_V |

## WP PCBs in Oil (cat# 835S)

|      |              |       |         |        |             |            |           |           |        |      |      |         |
|------|--------------|-------|---------|--------|-------------|------------|-----------|-----------|--------|------|------|---------|
| 8880 | Aroclor 1016 | mg/kg | < 0.100 | < 1.70 | 0.00 - 1.70 | Acceptable | EPA 8082A | 4/24/2012 |        |      |      | NAGAR_V |
| 8895 | Aroclor 1242 | mg/kg | < 0.100 | < 1.70 | 0.00 - 1.70 | Acceptable | EPA 8082A | 4/24/2012 |        |      |      | NAGAR_V |
| 8905 | Aroclor 1254 | mg/kg | < 0.150 | < 1.60 | 0.00 - 1.60 | Acceptable | EPA 8082A | 4/24/2012 |        |      |      | NAGAR_V |
| 8910 | Aroclor 1260 | mg/kg | 13.5    | 17.2   | 3.29 - 24.7 | Acceptable | EPA 8082A | 4/24/2012 | -0.169 | 14.2 | 3.96 | NAGAR_V |

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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Base/Neutrals (cat# 833)

|      |                                       |      |         |        |             |              |             |          |        |      |      |            |
|------|---------------------------------------|------|---------|--------|-------------|--------------|-------------|----------|--------|------|------|------------|
| 5500 | Acenaphthene                          | µg/L | 47.9    | 52.3   | 21.6 - 63.5 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.22   | 38.5 | 7.68 | GHAFFARI_M |
| 5505 | Acenaphthylene                        | µg/L | 41.9    | 41.1   | 15.7 - 51.4 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.40   | 33.2 | 6.21 | GHAFFARI_M |
| 5145 | 2-Amino-1-methylbenzene (o-toluidine) | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |
| 5545 | Aniline                               | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |
| 5555 | Anthracene                            | µg/L | < 0.200 | < 4.90 | 0.00 - 4.90 | Acceptable   | EPA 8270D 3 | 5/2/2012 |        |      |      | GHAFFARI_M |
| 5595 | Benzidine                             | µg/L | < 100   | < 20.0 | 0.00 - 20.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 |        |      |      | GHAFFARI_M |
| 5575 | Benzo(a)anthracene                    | µg/L | 15.2    | 14.1   | 5.84 - 18.7 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.32   | 12.3 | 2.17 | GHAFFARI_M |
| 5585 | Benzo(b)fluoranthene                  | µg/L | 23.1    | 23.3   | 7.19 - 33.2 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.02   | 19.5 | 3.53 | GHAFFARI_M |
| 5600 | Benzo(k)fluoranthene                  | µg/L | 40.5    | 35.2   | 7.90 - 54.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.99   | 31.0 | 4.80 | GHAFFARI_M |
| 5590 | Benzo(g,h,i)perylene                  | µg/L | 29.2    | 29.4   | 7.15 - 43.3 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.01   | 25.8 | 3.34 | GHAFFARI_M |
| 5580 | Benzo(a)pyrene                        | µg/L | 26.7    | 26.9   | 8.42 - 36.6 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.49   | 21.7 | 3.34 | GHAFFARI_M |
| 5630 | Benzyl alcohol                        | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |
| 5660 | 4-Bromophenyl-phenylether             | µg/L | < 1.00  | < 8.10 | 0.00 - 8.10 | Acceptable   | EPA 8270D 3 | 5/2/2012 |        |      |      | GHAFFARI_M |
| 5670 | Butylbenzylphthalate                  | µg/L | 165     | 165    | 34.7 - 232  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.998  | 137  | 27.8 | GHAFFARI_M |
| 5680 | Carbazole                             | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |
| 5745 | 4-Chloroaniline                       | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |
| 5760 | bis(2-Chloroethoxy)methane            | µg/L | < 1.00  | < 3.60 | 0.00 - 3.60 | Acceptable   | EPA 8270D 3 | 5/2/2012 |        |      |      | GHAFFARI_M |
| 5765 | bis(2-Chloroethyl)ether               | µg/L | 121     | 163    | 43.0 - 196  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.127  | 118  | 25.5 | GHAFFARI_M |
| 5780 | bis(2-Chloroisopropyl)ether           | µg/L | 51.2    | 70.8   | 18.6 - 88.2 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.0567 | 50.6 | 9.73 | GHAFFARI_M |
| 5790 | 1-Chloronaphthalene                   | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |        |      |      |            |

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|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|

## WP Base/Neutrals (cat# 833) (Continued)

|      |                            |      |         |        |             |              |             |          |       |      |      |            |
|------|----------------------------|------|---------|--------|-------------|--------------|-------------|----------|-------|------|------|------------|
| 5795 | 2-Chloronaphthalene        | µg/L | 28.5    | 28.0   | 7.91 - 35.2 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.21  | 22.7 | 4.80 | GHAFFARI_M |
| 5825 | 4-Chlorophenyl-phenylether | µg/L | 99.8    | 98.0   | 36.8 - 122  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.23  | 81.4 | 14.9 | GHAFFARI_M |
| 5855 | Chrysene                   | µg/L | 27.4    | 27.0   | 11.6 - 38.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.981 | 23.8 | 3.63 | GHAFFARI_M |
| 5895 | Dibenz(a,h)anthracene      | µg/L | < 0.200 | < 4.90 | 0.00 - 4.90 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 5905 | Dibenzofuran               | µg/L | 108     | 105    | 36.7 - 130  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.53  | 85.7 | 14.5 | GHAFFARI_M |
| 5925 | Di-n-butylphthalate        | µg/L | 104     | 86.8   | 28.7 - 115  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.47  | 81.4 | 15.3 | GHAFFARI_M |
| 4610 | 1,2-Dichlorobenzene        | µg/L |         | < 3.00 | 0.00 - 3.00 | Not Reported |             |          |       |      |      |            |
| 4615 | 1,3-Dichlorobenzene        | µg/L |         | 145    | 17.4 - 168  | Not Reported |             |          |       | 84.2 | 31.4 |            |
| 4620 | 1,4-Dichlorobenzene        | µg/L |         | < 3.00 | 0.00 - 3.00 | Not Reported |             |          |       |      |      |            |
| 5945 | 3,3'-Dichlorobenzidine     | µg/L | < 40.0  | < 10.0 | 0.00 - 10.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6070 | Diethylphthalate           | µg/L | 143     | 146    | 27.6 - 198  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.950 | 109  | 36.1 | GHAFFARI_M |
| 6135 | Dimethylphthalate          | µg/L | < 10.0  | < 10.0 | 0.00 - 10.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6185 | 2,4-Dinitrotoluene         | µg/L | 40.4    | 39.6   | 13.1 - 52.5 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.55  | 30.9 | 6.14 | GHAFFARI_M |
| 6190 | 2,6-Dinitrotoluene         | µg/L | < 1.00  | < 6.70 | 0.00 - 6.70 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6200 | Di-n-octylphthalate        | µg/L | 153     | 132    | 26.4 - 194  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 2.28  | 105  | 21.1 | GHAFFARI_M |
| 6065 | bis(2-Ethylhexyl)phthalate | µg/L | 91.4    | 85.4   | 25.4 - 118  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.17  | 73.3 | 15.4 | GHAFFARI_M |
| 6265 | Fluoranthene               | µg/L | 119     | 113    | 49.8 - 135  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.68  | 97.5 | 12.8 | GHAFFARI_M |
| 6270 | Fluorene                   | µg/L | 150     | 151    | 67.2 - 176  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.45  | 121  | 20.2 | GHAFFARI_M |
| 6275 | Hexachlorobenzene          | µg/L | 28.2    | 29.4   | 11.9 - 39.1 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.880 | 24.6 | 4.14 | GHAFFARI_M |
| 4835 | Hexachlorobutadiene        | µg/L | 96.9    | 128    | 15.3 - 151  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.716 | 73.4 | 32.7 | GHAFFARI_M |

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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Base/Neutrals (cat# 833) (Continued)

|      |                            |      |         |        |             |              |             |          |       |      |      |            |
|------|----------------------------|------|---------|--------|-------------|--------------|-------------|----------|-------|------|------|------------|
| 6285 | Hexachlorocyclopentadiene  | µg/L | < 3.00  | < 10.0 | 0.00 - 10.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 4840 | Hexachloroethane           | µg/L | 84.3    | 115    | 12.1 - 135  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.694 | 63.4 | 30.1 | GHAFFARI_M |
| 6315 | Indeno(1,2,3-cd)pyrene     | µg/L | < 0.200 | < 4.30 | 0.00 - 4.30 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6320 | Isophorone                 | µg/L | 60.6    | 63.3   | 25.3 - 82.4 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.733 | 51.6 | 12.3 | GHAFFARI_M |
| 6385 | 2-Methylnaphthalene        | µg/L | < 0.200 | < 3.50 | 0.00 - 3.50 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 5005 | Naphthalene                | µg/L | 107     | 130    | 33.8 - 154  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.887 | 87.7 | 21.8 | GHAFFARI_M |
| 6460 | 2-Nitroaniline             | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 6465 | 3-Nitroaniline             | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 6470 | 4-Nitroaniline             | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 5015 | Nitrobenzene               | µg/L | < 2.00  | < 7.20 | 0.00 - 7.20 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6525 | N-Nitrosodiethylamine      | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 6530 | N-Nitrosodimethylamine     | µg/L | 93.2    | 156    | 15.6 - 183  | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.413 | 80.5 | 30.8 | GHAFFARI_M |
| 6535 | N-Nitrosodiphenylamine     | µg/L | < 3.00  | < 6.40 | 0.00 - 6.40 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6545 | N-Nitroso-di-n-propylamine | µg/L | 54.7    | 58.4   | 14.9 - 78.9 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 1.11  | 46.5 | 7.41 | GHAFFARI_M |
| 6590 | Pentachlorobenzene         | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 6615 | Phenanthrene               | µg/L | < 0.200 | < 15.0 | 0.00 - 15.0 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |
| 6665 | Pyrene                     | µg/L | 39.5    | 41.2   | 13.4 - 59.5 | Acceptable   | EPA 8270D 3 | 5/2/2012 | 0.893 | 34.6 | 5.42 | GHAFFARI_M |
| 5095 | Pyridine                   | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 6715 | 1,2,4,5-Tetrachlorobenzene | µg/L |         | < 10.0 | 0.00 - 10.0 | Not Reported |             |          |       |      |      |            |
| 5155 | 1,2,4-Trichlorobenzene     | µg/L | < 1.00  | < 5.00 | 0.00 - 5.00 | Acceptable   | EPA 8270D 3 | 5/2/2012 |       |      |      | GHAFFARI_M |



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Acids (cat# 834)

|      |                            |      |        |        |             |              |                  |          |         |      |      |            |
|------|----------------------------|------|--------|--------|-------------|--------------|------------------|----------|---------|------|------|------------|
| 5610 | Benzoic acid               | µg/L |        | < 30.0 | 0.00 - 30.0 | Not Reported |                  |          |         |      |      |            |
| 5700 | 4-Chloro-3-methylphenol    | µg/L | 92.2   | 95.6   | 36.9 - 123  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 1.26    | 78.4 | 11.0 | GHAFFARI_M |
| 5800 | 2-Chlorophenol             | µg/L | 86.5   | 99.6   | 29.2 - 125  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 0.920   | 73.5 | 14.1 | GHAFFARI_M |
| 6000 | 2,4-Dichlorophenol         | µg/L | 81.8   | 82.3   | 25.8 - 103  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 1.60    | 66.0 | 9.82 | GHAFFARI_M |
| 6005 | 2,6-Dichlorophenol         | µg/L | 80.0   | 66.0   | 22.3 - 84.4 | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 3.88    | 53.0 | 6.95 | GHAFFARI_M |
| 6130 | 2,4-Dimethylphenol         | µg/L | < 10.0 | < 10.0 | 0.00 - 10.0 | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 |         |      |      | GHAFFARI_M |
| 6360 | 4,6-Dinitro-2-methylphenol | µg/L | 77.9   | 82.6   | 23.9 - 114  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 0.563   | 68.5 | 16.7 | GHAFFARI_M |
| 6175 | 2,4-Dinitrophenol          | µg/L | 78.1   | 131    | 13.1 - 181  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | -0.459  | 90.4 | 26.9 | GHAFFARI_M |
| 6400 | 2-Methylphenol             | µg/L | 89.1   | 112    | 21.1 - 138  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 0.677   | 77.5 | 17.1 | GHAFFARI_M |
| 6410 | 4-Methylphenol             | µg/L | 136    | 159    | 15.9 - 204  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 0.984   | 109  | 27.4 | GHAFFARI_M |
| 6490 | 2-Nitrophenol              | µg/L | 94.2   | 94.9   | 24.4 - 122  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 1.50    | 73.5 | 13.8 | GHAFFARI_M |
| 6500 | 4-Nitrophenol              | µg/L | 41.7   | 116    | 11.6 - 157  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | -0.446  | 50.3 | 19.3 | GHAFFARI_M |
| 6605 | Pentachlorophenol          | µg/L | 74.7   | 82.7   | 19.9 - 114  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 0.482   | 68.4 | 13.0 | GHAFFARI_M |
| 6625 | Phenol                     | µg/L | 58.0   | 161    | 16.1 - 216  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | -0.0489 | 59.0 | 21.6 | GHAFFARI_M |
| 6735 | 2,3,4,6-Tetrachlorophenol  | µg/L |        | 43.7   | 15.2 - 57.8 | Not Reported |                  |          |         | 38.1 | 6.23 |            |
| 6835 | 2,4,5-Trichlorophenol      | µg/L | 95.5   | 88.1   | 32.0 - 114  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 2.08    | 72.6 | 11.0 | GHAFFARI_M |
| 6840 | 2,4,6-Trichlorophenol      | µg/L | 91.2   | 93.1   | 29.7 - 118  | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | 1.32    | 75.8 | 11.6 | GHAFFARI_M |



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Nitroaromatics & Nitramines (cat# 932)

|      |                            |      |      |        |             |              |                  |          |          |      |       |            |
|------|----------------------------|------|------|--------|-------------|--------------|------------------|----------|----------|------|-------|------------|
| 9306 | 4-Amino-2,6-dinitrotoluene | µg/L |      | 2.13   | 1.13 - 2.98 | Not Reported |                  |          |          | 2.19 | 0.634 |            |
| 9303 | 2-Amino-4,6-dinitrotoluene | µg/L |      | 3.87   | 2.14 - 5.54 | Not Reported |                  |          |          | 3.88 | 0.449 |            |
| 6160 | 1,3-Dinitrobenzene         | µg/L | 5.39 | 6.56   | 3.14 - 9.42 | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | -0.88    | 6.28 | 1.01  | GHAFFARI_M |
| 6185 | 2,4-Dinitrotoluene         | µg/L |      | 18.5   | 9.46 - 27.0 | Not Reported |                  |          |          | 18.2 | 2.42  |            |
| 6190 | 2,6-Dinitrotoluene         | µg/L |      | 12.0   | 6.00 - 17.4 | Not Reported |                  |          |          | 12.3 | 2.48  |            |
| 9522 | HMX                        | µg/L |      | 6.32   | 3.13 - 8.97 | Not Reported |                  |          |          | 6.26 | 1.12  |            |
| 5015 | Nitrobenzene               | µg/L |      | 5.02   | 2.44 - 6.93 | Not Reported |                  |          |          | 4.66 | 0.772 |            |
| 9507 | 2-Nitrotoluene             | µg/L |      | 12.9   | 6.52 - 17.7 | Not Reported |                  |          |          | 12.9 | 1.41  |            |
| 9510 | 3-Nitrotoluene             | µg/L |      | 9.14   | 4.56 - 12.8 | Not Reported |                  |          |          | 9.23 | 1.14  |            |
| 9513 | 4-Nitrotoluene             | µg/L |      | 19.6   | 10.5 - 27.6 | Not Reported |                  |          |          | 18.7 | 1.94  |            |
| 9432 | RDX                        | µg/L |      | 18.6   | 9.71 - 25.0 | Not Reported |                  |          |          | 18.5 | 2.47  |            |
| 6415 | Tetryl                     | µg/L |      | < 1.00 | 0.00 - 1.00 | Not Reported |                  |          |          | 0.00 | 0.00  |            |
| 6885 | 1,3,5-Trinitrobenzene      | µg/L | 2.04 | 2.45   | 1.00 - 3.35 | Acceptable   | EPA 8270D 3 2007 | 5/2/2012 | -0.00157 | 2.04 | 0.456 | GHAFFARI_M |
| 9651 | 2,4,6-Trinitrotoluene      | µg/L |      | 14.0   | 7.44 - 18.6 | Not Reported |                  |          |          | 13.5 | 1.51  |            |



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Low-Level PAHs (cat# 836)

|      |                        |      |      |      |              |            |             |          |       |       |       |            |
|------|------------------------|------|------|------|--------------|------------|-------------|----------|-------|-------|-------|------------|
| 5500 | Acenaphthene           | µg/L | 10.6 | 14.4 | 4.80 - 17.4  | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.161 | 10.3  | 1.90  | GHAFFARI_M |
| 5505 | Acenaphthylene         | µg/L | 13.7 | 16.5 | 7.19 - 18.8  | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.691 | 12.0  | 2.49  | GHAFFARI_M |
| 5555 | Anthracene             | µg/L | 1.78 | 1.82 | 0.532 - 2.47 | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.05  | 1.46  | 0.306 | GHAFFARI_M |
| 5575 | Benzo(a)anthracene     | µg/L | 1.84 | 1.81 | 1.14 - 2.08  | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.30  | 1.53  | 0.238 | GHAFFARI_M |
| 5585 | Benzo(b)fluoranthene   | µg/L | 1.73 | 1.84 | 0.879 - 2.25 | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.918 | 1.45  | 0.306 | GHAFFARI_M |
| 5600 | Benzo(k)fluoranthene   | µg/L | 4.68 | 4.80 | 2.46 - 6.11  | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.12  | 3.82  | 0.765 | GHAFFARI_M |
| 5590 | Benzo(g,h,i)perylene   | µg/L | 1.54 | 1.73 | 0.525 - 2.28 | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.507 | 1.42  | 0.245 | GHAFFARI_M |
| 5580 | Benzo(a)pyrene         | µg/L | 1.17 | 1.22 | 0.521 - 1.53 | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.42  | 0.925 | 0.172 | GHAFFARI_M |
| 5855 | Chrysene               | µg/L | 2.24 | 2.25 | 1.24 - 2.79  | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.04  | 1.91  | 0.312 | GHAFFARI_M |
| 5895 | Dibenz(a,h)anthracene  | µg/L | 3.16 | 3.68 | 1.30 - 4.65  | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.425 | 2.88  | 0.650 | GHAFFARI_M |
| 6265 | Fluoranthene           | µg/L | 3.46 | 3.34 | 1.78 - 3.99  | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.15  | 2.83  | 0.544 | GHAFFARI_M |
| 6270 | Fluorene               | µg/L | 2.98 | 3.46 | 1.38 - 4.15  | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.478 | 2.71  | 0.557 | GHAFFARI_M |
| 6315 | Indeno(1,2,3-cd)pyrene | µg/L | 3.09 | 3.17 | 1.34 - 4.00  | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.824 | 2.64  | 0.552 | GHAFFARI_M |
| 5005 | Naphthalene            | µg/L | 2.05 | 2.64 | 0.788 - 3.25 | Acceptable | EPA 8270D 3 | 5/2/2012 | 0.343 | 1.90  | 0.430 | GHAFFARI_M |
| 6615 | Phenanthrene           | µg/L | 4.09 | 4.44 | 2.22 - 5.22  | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.06  | 3.48  | 0.578 | GHAFFARI_M |
| 6665 | Pyrene                 | µg/L | 1.67 | 1.68 | 0.922 - 2.01 | Acceptable | EPA 8270D 3 | 5/2/2012 | 1.04  | 1.36  | 0.297 | GHAFFARI_M |



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|------------------------|---------|-------|-------------------|-------------------|----------------------|---------------------------|--------------------|------------------|---------|---------------|--------------------------------|--------------|

## WP Organochlorine Pesticides (cat# 831)

|      |                           |      |      |      |              |            |                 |           |         |      |       |         |
|------|---------------------------|------|------|------|--------------|------------|-----------------|-----------|---------|------|-------|---------|
| 7025 | Aldrin                    | µg/L | 6.57 | 7.70 | 2.16 - 10.6  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.0341 | 6.62 | 1.60  | NAGAR_V |
| 7110 | alpha-BHC                 | µg/L | 3.14 | 3.47 | 1.31 - 4.89  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.102   | 3.08 | 0.568 | NAGAR_V |
| 7115 | beta-BHC                  | µg/L | 3.16 | 3.58 | 1.45 - 5.02  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.188  | 3.28 | 0.649 | NAGAR_V |
| 7105 | delta-BHC                 | µg/L | 4.11 | 4.50 | 1.58 - 6.30  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.0334 | 4.14 | 0.952 | NAGAR_V |
| 7120 | gamma-BHC(Lindane)        | µg/L | 3.12 | 3.40 | 1.34 - 4.79  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.135  | 3.20 | 0.609 | NAGAR_V |
| 7240 | alpha-Chlordane           | µg/L | 4.95 | 5.75 | 2.58 - 7.78  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.223  | 5.20 | 1.14  | NAGAR_V |
| 7245 | gamma-Chlordane           | µg/L | 1.51 | 1.73 | 0.768 - 2.48 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.336  | 1.62 | 0.317 | NAGAR_V |
| 7355 | 4,4'-DDD                  | µg/L | 3.37 | 3.37 | 1.30 - 4.92  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.390   | 3.16 | 0.549 | NAGAR_V |
| 7360 | 4,4'-DDE                  | µg/L | 3.17 | 3.88 | 1.70 - 5.11  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.377  | 3.42 | 0.665 | NAGAR_V |
| 7365 | 4,4'-DDT                  | µg/L | 2.83 | 2.99 | 1.12 - 4.35  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.0526  | 2.80 | 0.555 | NAGAR_V |
| 7470 | Dieldrin                  | µg/L | 1.76 | 2.13 | 0.995 - 2.97 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.606  | 1.97 | 0.352 | NAGAR_V |
| 7540 | Endrin                    | µg/L | 5.95 | 6.22 | 2.26 - 9.32  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.0147  | 5.93 | 1.14  | NAGAR_V |
| 7530 | Endrin aldehyde           | µg/L | 5.77 | 6.52 | 1.78 - 10.1  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.251  | 6.05 | 1.11  | NAGAR_V |
| 7535 | Endrin ketone             | µg/L | 7.47 | 7.90 | 4.18 - 10.7  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.257   | 7.11 | 1.41  | NAGAR_V |
| 7510 | Endosulfan I              | µg/L | 3.69 | 4.35 | 0.958 - 5.98 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.0618 | 3.73 | 0.699 | NAGAR_V |
| 7515 | Endosulfan II             | µg/L | 7.84 | 9.02 | 2.88 - 12.1  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.100   | 7.64 | 1.98  | NAGAR_V |
| 7520 | Endosulfan sulfate        | µg/L | 2.27 | 2.55 | 0.907 - 3.73 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.407  | 2.42 | 0.382 | NAGAR_V |
| 7685 | Heptachlor                | µg/L | 3.68 | 3.99 | 1.29 - 5.49  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.252   | 3.49 | 0.736 | NAGAR_V |
| 7690 | Heptachlor epoxide (beta) | µg/L | 4.14 | 4.73 | 2.33 - 6.64  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | -0.405  | 4.46 | 0.784 | NAGAR_V |
| 7810 | Methoxychlor              | µg/L | 9.88 | 10.1 | 2.70 - 15.9  | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.0459  | 9.79 | 1.97  | NAGAR_V |



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Chlordane (cat# 837)

|      |                      |      |      |      |             |            |                 |           |      |      |      |         |
|------|----------------------|------|------|------|-------------|------------|-----------------|-----------|------|------|------|---------|
| 7250 | Chlordane, technical | µg/L | 6.24 | 5.36 | 2.00 - 7.78 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 1.26 | 4.64 | 1.26 | NAGAR_V |
|------|----------------------|------|------|------|-------------|------------|-----------------|-----------|------|------|------|---------|

## WP Toxaphene (cat# 838)

|      |           |      |      |      |             |            |                 |           |       |      |      |  |
|------|-----------|------|------|------|-------------|------------|-----------------|-----------|-------|------|------|--|
| 8250 | Toxaphene | µg/L | 42.4 | 36.6 | 3.66 - 66.2 | Acceptable | DEPSOP:GC-011-5 | 4/27/2012 | 0.659 | 35.4 | 10.6 |  |
|------|-----------|------|------|------|-------------|------------|-----------------|-----------|-------|------|------|--|



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|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|
|------------------|---------|-------|----------------|----------------|-------------------|------------------------|--------------------|---------------|---------|------------|--------------------------|--------------|

## WP Organophosphorous Pesticides (OPP) (cat# 934)

|      |                           |      |      |        |              |              |                 |           |         |      |       |           |
|------|---------------------------|------|------|--------|--------------|--------------|-----------------|-----------|---------|------|-------|-----------|
| 7075 | Azinphos-methyl (Guthion) | µg/L | 9.80 | 10.2   | 1.16 - 17.6  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.519   | 8.11 | 3.25  | CARBONE_I |
| 7220 | Carbophenothion           | µg/L |      | 14.9   | 1.49 - 23.2  | Not Reported |                 |           |         | 12.8 | 0.389 |           |
| 7300 | Chlorpyrifos              | µg/L | 9.86 | 11.6   | 3.26 - 16.3  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.0396  | 9.77 | 2.32  | CARBONE_I |
| 7395 | Demeton-O                 | µg/L |      | < 2.00 | 0.00 - 2.00  | Not Reported |                 |           |         |      |       |           |
| 7385 | Demeton-S                 | µg/L |      | < 2.00 | 0.00 - 2.00  | Not Reported |                 |           |         |      |       |           |
| 7410 | Diazinon                  | µg/L | 8.23 | 9.56   | 3.55 - 14.2  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | -0.45   | 9.09 | 1.92  | CARBONE_I |
| 8610 | Dichlorvos (DDVP)         | µg/L |      | < 2.00 | 0.00 - 2.00  | Not Reported |                 |           |         |      |       |           |
| 7475 | Dimethoate                | µg/L |      | 7.28   | 0.728 - 11.4 | Not Reported |                 |           |         | 10.2 | 10.4  |           |
| 7495 | Dioxathion                | µg/L |      | < 2.00 | 0.00 - 2.00  | Not Reported |                 |           |         |      |       |           |
| 8625 | Disulfoton                | µg/L | 8.04 | 5.88   | 0.972 - 9.59 | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 2.20    | 5.36 | 1.22  | CARBONE_I |
| 7565 | Ethion                    | µg/L | 3.85 | 3.91   | 1.23 - 6.56  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.291   | 3.54 | 1.06  | CARBONE_I |
| 7570 | Ethoprop                  | µg/L | 8.27 | 8.87   | 3.00 - 12.3  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.391   | 7.77 | 1.27  | CARBONE_I |
| 7955 | Ethyl Parathion           | µg/L | 18.7 | 17.8   | 9.79 - 25.8  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | -0.0658 | 18.8 | 2.30  | CARBONE_I |
| 7580 | Famphur                   | µg/L |      | 16.0   | 5.18 - 27.8  | Not Reported |                 |           |         | 12.6 | 2.23  |           |
| 7640 | Fonofos                   | µg/L | 12.5 | 16.1   | 1.61 - 31.6  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | -1.15   | 16.2 | 3.28  | CARBONE_I |
| 7770 | Malathion                 | µg/L | 13.6 | 14.8   | 3.43 - 23.3  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | -0.16   | 14.1 | 3.14  | CARBONE_I |
| 7825 | Methyl Parathion          | µg/L | 7.63 | 9.47   | 3.53 - 13.4  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.187   | 7.36 | 1.43  | CARBONE_I |
| 7985 | Phorate                   | µg/L | 14.2 | 16.3   | 5.48 - 20.8  | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.338   | 13.1 | 3.37  | CARBONE_I |
| 8000 | Phosmet                   | µg/L |      | < 2.00 | 0.00 - 2.00  | Not Reported |                 |           |         |      |       |           |
| 8110 | Ronnel                    | µg/L |      | 16.8   | 6.40 - 20.5  | Not Reported |                 |           |         | 13.8 | 3.05  |           |



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**WP Organophosphorous Pesticides (OPP) (cat# 934) (Continued)**

|      |           |      |      |        |             |              |                 |           |       |      |      |           |
|------|-----------|------|------|--------|-------------|--------------|-----------------|-----------|-------|------|------|-----------|
| 8200 | Stirophos | µg/L |      | < 2.00 | 0.00 - 2.00 | Not Reported |                 |           |       |      |      |           |
| 8185 | Terbufos  | µg/L | 15.9 | 19.5   | 5.44 - 24.2 | Acceptable   | DEPSOP:GC-012-3 | 4/26/2012 | 0.544 | 13.4 | 4.58 | CARBONE_I |



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