

RMT

Letter of Transmittal



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Date: 2/11/09
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Subject: Kewaunee Marsh - 2008 Sampling Report

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Please find enclosed the Kewaunee Marsh Arsenic Bioreduction Field Trial 2008 Sampling Report for your use.

Please call Bob, at (608) 662-5310, with any questions.

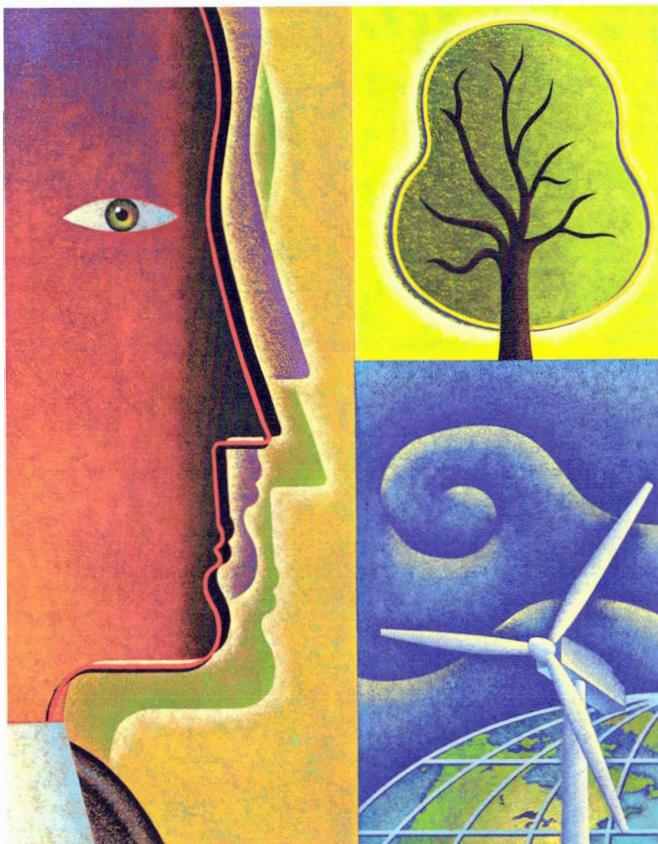
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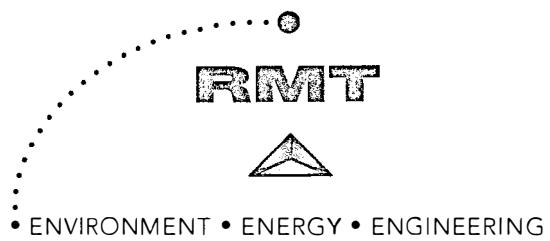
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**Kewanee Marsh
Arsenic Bioreduction Field Trial
2008 Sampling Report**

February 2009





Kewanee Marsh Arsenic Bioreduction Field Trial 2008 Sampling Report

February 2009

Prepared For
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Section 1

Introduction

A portion of the CD Besadny Wildlife Area in Kewaunee, Wisconsin, is contaminated with arsenic due to a railroad spill that occurred a number of decades ago. Field trials to evaluate bioreduction of the arsenic were started during the summer of 2008, as described in the RMT report to the Wisconsin Department of Natural Resources entitled *Bioreduction Field Trials Test Plot Construction Report, July 2008*. The field trials involved developing a number of test plots testing several permutations of the treatment approach, including mechanical versus chemical control of the cattails, type of biostimulant, and frequency of biostimulant application. Maps showing the location of the area of concern within the marsh and of the test plots within the area of concern are provided in Appendix A.

As part of the field trials, soil samples were taken from the test plots monthly from July through October, 2008. This report presents the results of the monthly sampling of the test plots during 2008.

The different test plots are as follows:

- Test Plot 1 Control
- Test Plot 2 Mechanical control of cattails, no biostimulant
- Test Plot 3 Mechanical control of cattails, single application of ethanol
- Test Plot 4 Mechanical control of cattails, single application of sucrose
- Test Plot 5 Mechanical control of cattails, monthly application of sucrose
- Test Plot 6 Chemical control of cattails, no biostimulant
- Test Plot 7 Chemical control of cattails, single application of sucrose

Five samples were collected from each test plot during each visit, with the samples being collected near the four corners and in the center of each test plot (sampling locations within the test plot are shown in Appendix A). Each sample was analyzed individually, and the results were averaged to provide an arsenic concentration for the test plot. Using five replicates allowed for an analysis of the variability within each test plot.

In addition, gas sampling devices were set up in Test Plots 2 through 7, and gas samples were collected when gas had been generated.

Section 2

Sampling Methods

The test plots were set up during the week of June 16 through 20, 2008. Samples were collected on the following dates:

- July 29, 2008
- August 26, 2008
- September 30, 2008
- October 28, 2008

2.1 Soil Sampling

During each visit, five soil samples were collected from each test plot according to the Soil/Sediment Sampling Procedures (June 2008 Workplan). Soil samples were collected from the upper 1 foot of soil using a soil probe. The probe consists of a 2 ¾-inch hollow metal cylinder that was driven 1 foot into the soil column. The tube was then removed and the soil was extracted. The soil was placed in a labeled Zip-Lock® plastic bag, and identified with the test plot number, date, and time of sample collection. The samples were shipped, on ice, to Pace Laboratories in Green Bay for total arsenic analysis.

2.2 Gas Sampling

Gas samples were collected using methods described in the June 2008 workplan (Appendix C of the June 2008 Workplan), in which a gas impermeable device driven into the ground channeled gas to a central collection tube. A Tedlar® gas collection bag was used to store gas collected through this device. During each sampling trip, the gas production volume was checked at each test plot. If gas production was noted, the Tedlar® collection bag was removed and brought back to the RMT Applied Chemistry laboratory for sample preparation.

Arsine gas analysis was performed by capturing arsine gas onto a solid sorbent tube according to NIOSH Method 6001. Gas was drawn from the Tedlar® collection bag through the sorbent tube at a calibrated rate of 0.100 liters/minute (L/min). The volume of gas collected was determined by measuring the time required to empty the bag at a flow rate of 0.100 L/min. The sorbent tubes were then sealed and sent to the Wisconsin Occupational Health Laboratory for arsenic analysis.

Section 3

Results and Discussion

3.1 Mechanical vs. Chemical Removal of Vegetation

One of the variables in the test plots is the means used to remove the cattails: mechanical versus chemical control. Mechanical control was used for Test Plots 2 through 5, while chemical control (herbicides) was applied to kill the cattails for Test Plots 6 and 7. Photographs of the two sets of test plots throughout the summer are shown in Photographic Logs 1 and 2, respectively. Mechanical removal was effective in the initial killing of most of the cattails (Photographic Log 1). A few cattails in each test plot were observed by August, along with some grasses on the dry soil. The herbicide was effective in killing the cattails, but the dry plants were left still standing. The purpose in killing the cattails was to stop the introduction of oxygen into the submerged soil. Since oxygen transport is passive through the air passages in the cattail stems, leaving the stalks in place allows for oxygen to enter the submerged soil by diffusion through the dead cattail stalks, and does not provide as good a method for generating anaerobic conditions in the saturated soil as mechanical removal does.

3.2 Soil Arsenic Analysis

The monthly compositional arsenic results are presented in Tables 1 through 5, for the June through October samples, respectively. The June samples were collected during the test plot installation prior to the initial application of bioreductants, and represent the baseline samples. Laboratory data sheets from Pace Laboratories for the July through October samples are provided in Appendix B. (Laboratory sheets for the June samples are provided in the Test Plot Construction Report.) Table 6 presents a summary of the mean arsenic concentrations in each test plot for each date, while Figure 1 presents the mean arsenic concentrations graphically. The results for each test plot are presented by test plot number, while the sampling sequence is indicated by 0.1 increments (i.e., for Test Plot 1, the soil arsenic concentration plotted at point 1.0 is the baseline sampling, 1.1 is the July sample results, 1.2 the August sample results, etc.). Also shown on the plot are the standard deviation ranges for each sampling event (as the mean concentration +/- standard deviation [σ]).

There is considerable variability in the arsenic concentrations during each sampling event measured in each test plot. The variability in the sample results from each test plot make it difficult to draw any firm conclusions regarding the success of the treatment over the 4-month period. The mean standard deviation for the samples was 28.6 percent for all of the samples from the five sampling events, and the mean standard deviation for each sampling event

seemed to increase as the summer progressed. The monthly means for the standard deviations are as follows:

- June 23.4%
- July 22.9%
- August 31.5%
- September 32.0%
- October 33.4%

Evaluation of bioreduction effectiveness would be facilitated if the variability in the test plot arsenic concentrations could be reduced. Several ideas as to the source of the variability were evaluated. One reason for the high variability may be the abundance of plant material in the marsh, which makes uniform distribution of the arsenic in the subsample aliquots used for compositional analysis difficult. If this hypothesis is correct, then homogenizing a larger sample should provide a more representative subsample for the compositional analysis. This hypothesis was tested by taking the five samples from two tests plots (Test Plots 1 and 4) for the October sampling, drying and grinding each sample, and then submitting the dry, ground powder to the laboratory for analysis. The results are presented in Table 7. The dry, ground samples show almost as much variability as the original samples, so the observed variability is not due simply to heterogeneity within each sample. Also, the dried samples showed the same trends in arsenic concentration within each test plot as the as-is samples (i.e., the highest arsenic concentration was found in the samples from the same location within each test plot, whether the samples were analyzed as-is or after drying and grinding). This indicates that the variability is due to differences in the arsenic concentrations within the different sections of each test plot, and not to analytical variability.

Also possible is that the organic content of each sample varies considerably, which gives rise to the variability in the arsenic concentrations, since the arsenic is primarily associated with the inorganic fraction in the samples. This hypothesis was tested by ashing the same samples used for the drying and grinding experiment, and then measuring the arsenic content of the ash. The results are presented in Table 7. Note that the arsenic concentrations in the ash are considerably higher than in the soil, since the organic matter had been removed in the ashed samples.

Ashing did little to decrease the variability of the samples. The arsenic content of the marsh material appears to be highly variable even within the area of one test plot (approximately 8 feet by 8 feet). Thus, the source of the variability seems to be the heterogeneity of the soil within the test plots, not the small-scale heterogeneity within each sample.

However, the thought process for evaluating the variability of the marsh material did highlight some conceptual difficulties with monitoring the arsenic removal using compositional analysis.

The soil in the marsh consists predominantly of plant material, with a moderate percentage of inorganic material. During the year, the amount of organic material in the marsh is not constant. At the end of each growing season, the cattails and other vegetation in the marsh fall to the ground and create a new layer of marsh material. This layer can be seen in the pictures of the marsh as the fallen cattails. During the winter, this material remains dormant in the marsh. With the return of spring, however, the material in the marsh soil starts to decay and is converted to carbon dioxide (CO_2) releasing the inorganic constituents tied up in the plants. This decay is much more rapid under aerobic conditions than it is under anaerobic conditions, and during the warm months of the year than it is during the winter. The bulk of the material formed during the year is decomposed within the next year or two (otherwise the marsh would be increasing in depth very rapidly). Given a constant mass of arsenic in a section of the marsh, the concentrations would vary throughout the year, depending on the stage of plant material decomposition, going up during the summer as the plant material decomposes, and down in the winter as the new plant material is added to the soil. This may be the cause of the apparent increase in arsenic concentrations in the control plot (Test Plot 1) throughout the 5 months. In order to effectively monitor the arsenic concentration over time, samples would have to be taken at the same stage in the yearly cycle.

A second problem that was encountered was that the water level in the marsh dropped during the summer. When the test plots were first installed in June, the water table was at the marsh soil surface, so that the whole soil column was submerged. As the summer progressed, though, the water level dropped by over a foot (as shown by the gas samplers drying up, as discussed below). The surface soil from which the samples were collected was no longer saturated. The strongly anaerobic conditions under which methane (and arsine) is generated in the marsh likely require saturated conditions, which means that the bioreduction of arsenic to arsine gas was no longer occurring in the surface soil. The arsenic levels in the soil need to be monitored during the period when the soil is saturated and methane is being generated (i.e., April through July), rather than during the drier months later in the summer.

3.3 Gas Analysis

Gas sampling devices were set up in each of the test plots (except the control plot), and the devices were checked for any generated gas during each sampling trip. Gas samples were collected from the test devices in July and August, and were analyzed for arsine gas. The results are given in Table 8, along with the gas volumes collected. The two samples with the larger volumes had measurable, albeit low, concentrations of arsine. Two other samples had measurable gas volumes, but no arsine. (The gas collection devices were broken on the other two test plots. The tubes had loosened during installation, but had not been noticed.) The results demonstrate that arsine gas generation does occur in the marsh, although the results are not sufficient to indicate a loss in mass over time.

However, in August and thereafter, gas generated was not observed. This was ascribed to the bottom of the gas sampling tube being above the water table. Since collection of the gas samples requires that the bottoms of the sampling tubes be below the groundwater table (to ensure a seal against gas loss to the atmosphere), and since the water tables had fallen to below the bottom of the sampling tubes, the lack of gas was due to the fact that the tubes were no longer sealed. While methane generation should stop once the soil becomes unsaturated, CO₂ production (and hence gas) should still continue. New tubes were installed with the bottoms below the groundwater table; however no gas was collected in September or October. The new tubes had a smaller diameter (4 inches vs. 8 inches), and the lack of gas may have been due to a much smaller volume of marsh soil being monitored. The smaller volume of gas collected was too small to measure on the gas sampling equipment.

Chloric first
organic layer consumed
weight of soil decreases
inorganic weight stays same
concentration increases

Section 4

Conclusions and Recommendations

4.1 Conclusions

The results of the first year's sampling have demonstrated several features:

- Mechanical removal is more effective than herbicide application for disrupting oxygen transport to the subsurface by the cattails.
- Arsine gas generation does occur in the marsh, indicating that the bioreduction of arsenic to arsine is occurring.
- Compositional analysis for arsenic provided inconclusive results as to whether there was significant loss of arsenic from the marsh. The standard deviations for the five samples within each test plot were quite high. In addition, for many test plots, there was no clear trend in direction for the arsenic concentrations. Some test plots (e.g., Test Plot 3) showed a considerable drop in arsenic concentrations, while others (Test Plots 2, 4, 6, and 7) showed no trends, and two (Test Plots 1 and 5) showed an increase in arsenic concentrations over time. The lack of clear trends and the wide variability make it difficult to draw any conclusions as to whether the bioreduction process is remediating the marsh.
- Bioreduction is complicated by the fluctuating water tables in the marsh. Bioreduction requires highly anaerobic (methane-generating) conditions, which presumably only occur when the soil is saturated. Thus, bioreduction is going to occur in the top foot of soil when the water table is high, typically during the spring and early summer, and taper off during the late summer and autumn when the water table falls.
- Monitoring the loss of arsenic from the marsh by measuring soil concentrations is complicated by the annual cycle of organic matter formation and destruction as the marsh vegetation grows, dies, and is decomposed. Since the marsh soil is predominantly organic, the total mass of soil in the surface layer of the marsh varies throughout the year, altering the measured values of compositional arsenic. It is important, therefore, that the measurements be made at the same time during the annual cycle.

4.2 Recommendations

Given these findings, RMT recommends that sampling continue through 2009. Sampling should be conducted in April (during which time the test plots will be repaired if necessary) and then in June and July, 2009, with a final sampling trip in October. This will provide an opportunity to repair the test plots, and to compare results at the same points in the annual cycle (June, July, and October). Both soil samples and gas samples should be collected and analyzed for arsenic. Since the problem with the gas samplers was that the groundwater

dropped below the bottom of the collection devices after July, the existing setups should be appropriate for the wetter months.

We also recommend that one additional test area be installed to eliminate some of the variables encountered during 2008 in evaluating the effectiveness of bioreduction at removing arsenic from the marsh, and in determining arsine gas concentrations in the generated gas. A large sample of contaminated soil will be collected and homogenized, and then placed in sample containers below the groundwater surface. The homogenized soil will be sampled during the sampling events for the other test plots. One sample container will be attached to a gas sampling device. The additional test area will facilitate an evaluation of the effectiveness of bioreduction at removing arsenic from the marsh soil using a more homogenized and characterized soil under more uniform and conducive conditions for bioreduction.

2x2 plot

Table 1
June Results (Baseline)

| PLOT # | PLOT REPLICATE | BASELINE ARSENIC CONCENTRATION (mg/kg) DRY WEIGHT | MEAN ARSENIC CONCENTRATION PER PLOT (mg/kg) | STANDARD DEVIATION |
|--------|-------------------|---|--|-----------------------|
| 1 | 1-1 | 456 | 469.8 | 14.8% |
| | 1-2 | 544 | | |
| | 1-3 | 461 | | |
| | 1-4 | 366 | | |
| | 1-5 | 522 | | |
| 2 | 2-1 | 630 | 798 | 23.7% |
| | 2-2 | 1090 | | |
| | 2-3 | 629 | | |
| | 2-4 | 818 | | |
| | 2-5 | 823 | | |
| 3 | 3-1 | 1330 | 1016.4 | 27.5% |
| | 3-2 | 636 | | |
| | 3-3 | 1200 | | |
| | 3-4 | 1080 | | |
| | 3-5 | 836 | | |
| 4 | 4-1 | 1070 | 780 | 31.4% |
| | 4-2 | 1010 | | |
| | 4-3 | 577 | | |
| | 4-4 | 697 | | |
| | 4-5 | 546 | | |
| 5 | 5-1 | 608 | 517.8 | 20.9% |
| | 5-2 | 457 | | |
| | 5-3 | 641 | | |
| | 5-4 | 506 | | |
| | 5-5 | 377 | | |
| 6 | 6-1 | 898 | 780.2 | 17.5% |
| | 6-2 | 570 | | |
| | 6-3 | 717 | | |
| | 6-4 | 840 | | |
| | 6-5 | 876 | | |
| 7 | 7-1 | 594 | 651.4 | 27.7% |
| | 7-2 | 473 | | |
| | 7-3 | 853 | | |
| | 7-4 | 832 | | |
| | 7-5 | 505 | | |

Table 2
July Results

| PLOT # | PLOT REPLICATE | COMPOSITIONAL ARSENIC CONCENTRATION (mg/kg) | | |
|--------|----------------|--|------|----------|
| | | INDIVIDUAL | MEAN | Σ |
| 1 | 1-1 | 240 | 398 | 105 |
| | 1-2 | 509 | | 26.4% |
| | 1-3 | 444 | | |
| | 1-4 | 350 | | |
| | 1-5 | 449 | | |
| 2 | 2-1 | 780 | 721 | 77 |
| | 2-2 | 632 | | 10.7% |
| | 2-3 | 695 | | |
| | 2-4 | 677 | | |
| | 2-5 | 820 | | |
| 3 | 3-1 | 1080 | 863 | 274 |
| | 3-2 | 799 | | 31.7% |
| | 3-3 | 766 | | |
| | 3-4 | 1180 | | |
| | 3-5 | 490 | | |
| 4 | 4-1 | 741 | 801 | 176 |
| | 4-2 | 1060 | | 22.0% |
| | 4-3 | 576 | | |
| | 4-4 | 845 | | |
| | 4-5 | 781 | | |
| 5 | 5-1 | 907 | 757 | 225 |
| | 5-2 | 653 | | 29.7% |
| | 5-3 | 518 | | |
| | 5-4 | 1070 | | |
| | 5-5 | 637 | | |
| 6 | 6-1 | 646 | 700 | 48 |
| | 6-2 | 736 | | 6.8% |
| | 6-3 | 731 | | |
| | 6-4 | 650 | | |
| | 6-5 | 739 | | |
| 7 | 7-1 | 826 | 590 | 195 |
| | 7-2 | 546 | | 33.1% |
| | 7-3 | 761 | | |
| | 7-4 | 412 | | |
| | 7-5 | 405 | | |

Table 3
August Results

| PLOT # | PLOT REPLICATE | COMPOSITIONAL ARSENIC CONCENTRATION (mg/kg) | | |
|--------|----------------|--|------|--------------|
| | | INDIVIDUAL | MEAN | Σ |
| 1 | 1-1 | 713 | 594 | 304 51.3% |
| | 1-2 | 946 | | |
| | 1-3 | 293 | | |
| | 1-4 | 256 | | |
| | 1-5 | 760 | | |
| 2 | 2-1 | 783 | 707 | 108 15.2% |
| | 2-2 | 711 | | |
| | 2-3 | 807 | | |
| | 2-4 | 532 | | |
| | 2-5 | 704 | | |
| 3 | 3-1 | 904 | 901 | 235 26.0% |
| | 3-2 | 824 | | |
| | 3-3 | 1200 | | |
| | 3-4 | 1010 | | |
| | 3-5 | 565 | | |
| 4 | 4-1 | 564 | 578 | 170 29.4% |
| | 4-2 | 493 | | |
| | 4-3 | 645 | | |
| | 4-4 | 822 | | |
| | 4-5 | 368 | | |
| 5 | 5-1 | 460 | 626 | 233 37.2% |
| | 5-2 | 317 | | |
| | 5-3 | 698 | | |
| | 5-4 | 892 | | |
| | 5-5 | 761 | | |
| 6 | 6-1 | 745 | 719 | 213 29.6% |
| | 6-2 | 739 | | |
| | 6-3 | 920 | | |
| | 6-4 | 362 | | |
| | 6-5 | 829 | | |
| 7 | 7-1 | 353 | 684 | 217 31.7% |
| | 7-2 | 650 | | |
| | 7-3 | 711 | | |
| | 7-4 | 753 | | |
| | 7-5 | 952 | | |

Table 4
September Results

| PLOT # | PLOT REPLICATE | COMPOSITIONAL ARSENIC CONCENTRATION (mg/kg) | | |
|--------|----------------|--|------|--------------|
| | | INDIVIDUAL | MEAN | Σ |
| 1 | 1-1 | 588 | 613 | 227 37.1% |
| | 1-2 | 1010 | | |
| | 1-3 | 516 | | |
| | 1-4 | 447 | | |
| | 1-5 | 506 | | |
| 2 | 2-1 | 375 | 723 | 233 32.2% |
| | 2-2 | 969 | | |
| | 2-3 | 891 | | |
| | 2-4 | 738 | | |
| | 2-5 | 642 | | |
| 3 | 3-1 | 864 | 800 | 229 28.6% |
| | 3-2 | 749 | | |
| | 3-3 | 703 | | |
| | 3-4 | 1150 | | |
| | 3-5 | 533 | | |
| 4 | 4-1 | 636 | 761 | 220 29.0% |
| | 4-2 | 764 | | |
| | 4-3 | 747 | | |
| | 4-4 | 1120 | | |
| | 4-5 | 538 | | |
| 5 | 5-1 | 513 | 611 | 184 30.1% |
| | 5-2 | 444 | | |
| | 5-3 | 478 | | |
| | 5-4 | 834 | | |
| | 5-5 | 785 | | |
| 6 | 6-1 | 1240 | 823 | 288 35.0% |
| | 6-2 | 564 | | |
| | 6-3 | 948 | | |
| | 6-4 | 549 | | |
| | 6-5 | 816 | | |
| 7 | 7-1 | 498 | 655 | 210 32.1% |
| | 7-2 | 556 | | |
| | 7-3 | 916 | | |
| | 7-4 | 461 | | |
| | 7-5 | 844 | | |

Table 5
October Results

| PLOT # | PLOT REPLICATE | COMPOSITIONAL ARSENIC CONCENTRATION (mg/kg) | | |
|--------|----------------|--|------|--------------|
| | | INDIVIDUAL | MEAN | Σ |
| 1 | 1-1 | 406 | 609 | 265 43.5% |
| | 1-2 | 1050 | | |
| | 1-3 | 415 | | |
| | 1-4 | 529 | | |
| | 1-5 | 646 | | |
| 2 | 2-1 | 736 | 745 | 109 14.6% |
| | 2-2 | 625 | | |
| | 2-3 | 921 | | |
| | 2-4 | 745 | | |
| | 2-5 | 700 | | |
| 3 | 3-1 | 740 | 674 | 159 23.6% |
| | 3-2 | 519 | | |
| | 3-3 | 730 | | |
| | 3-4 | 876 | | |
| | 3-5 | 505 | | |
| 4 | 4-1 | 507 | 746 | 419 56.1% |
| | 4-2 | 1410 | | |
| | 4-3 | 366 | | |
| | 4-4 | 554 | | |
| | 4-5 | 894 | | |
| 5 | 5-1 | 791 | 829 | 178 21.5% |
| | 5-2 | 830 | | |
| | 5-3 | 635 | | |
| | 5-4 | 1120 | | |
| | 5-5 | 770 | | |
| 6 | 6-1 | 574 | 873 | 296 33.9% |
| | 6-2 | 904 | | |
| | 6-3 | 1320 | | |
| | 6-4 | 930 | | |
| | 6-5 | 636 | | |
| 7 | 7-1 | 331 | 607 | 248 40.8% |
| | 7-2 | 693 | | |
| | 7-3 | 360 | | |
| | 7-4 | 769 | | |
| | 7-5 | 880 | | |

Table 6
Summary of Mean Arsenic Concentrations in Each Test Plot by Month

| TEST PLOT | ARSENIC CONCENTRATION (mg/kg) | | | | |
|-----------|----------------------------------|------|--------|-----------|---------|
| | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER |
| 1 | 470 | 398 | 594 | 613 | 609 |
| 2 | 798 | 721 | 707 | 723 | 745 |
| 3 | 1016 | 863 | 901 | 800 | 674 |
| 4 | 780 | 801 | 578 | 761 | 746 |
| 5 | 518 | 757 | 626 | 611 | 829 |
| 6 | 780 | 700 | 719 | 823 | 873 |
| 7 | 651 | 590 | 684 | 655 | 607 |

Table 7
Comparison of Three Methods for Preparing Soil Samples for Arsenic Analysis

| SAMPLE | | ARSENIC CONTENT (mg/kg) (DRY) | | | |
|-----------|--------|----------------------------------|------------------|--------------------|-----------------------|
| TEST PLOT | SAMPLE | AS-IS | DRIED, GROUND | ASHED | |
| | | | | ASH CONTENT (%) | AS IN ASH, (mg/kg) |
| 1 | 1-1 | 406 | 434 | 39 | 980 |
| | 1-2 | 1050 | 971 | 42 | 2100 |
| | 1-3 | 415 | 335 | 42 | 840 |
| | 1-4 | 529 | 508 | 32 | 1400 |
| | 1-5 | 646 | 639 | 31 | 2100 |
| | Mean | 609 +/- 265 | 577 +/- 246 | 37.2 +/- 5.4 | 1480 +/- 599 |
| 4 | 4-1 | 507 | 547 | 33 | 1400 |
| | 4-2 | 1410 | 990 | 32 | 2700 |
| | 4-3 | 366 | 404 | 21 | 1500 |
| | 4-4 | 554 | 599 | 30 | 1800 |
| | 4-5 | 894 | 744 | 37 | 1700 |
| | Mean | 746 +/- 419 | 657 +/- 222 | 30.6 +/- 5.9 | 1820 +/- 517 |
| | | | | | 564 +/- 206 |

Table 8
Kewaunee Gas Sampling Results

| PLOT NO | JULY (1)* | | | JULY (2) | | |
|---------|------------|-----------------------------|---|------------|-----------------------------|---|
| | VOL (L) | As | | VOL (L) | As | |
| | | AMOUNT (μg) | CONCENTRATION (mg/m^3) | | AMOUNT (μg) | CONCENTRATION (mg/m^3) |
| 2 | | | | 0.708 | 0.0082 | 0.012 |
| 3 | | | | 0.324 | <0.0060 | <0.019 |
| 4 | | | | 0.223 | <0.0060 | <0.027 |
| 5 | 0.307 | <0.0060 | | | | |
| 6 | | | | | | |
| 7 | | | | 0.452 | 0.0063 | 0.014 |

* Sample was collected by Ms. Annette Weissbach, WDNR.

FIGURES

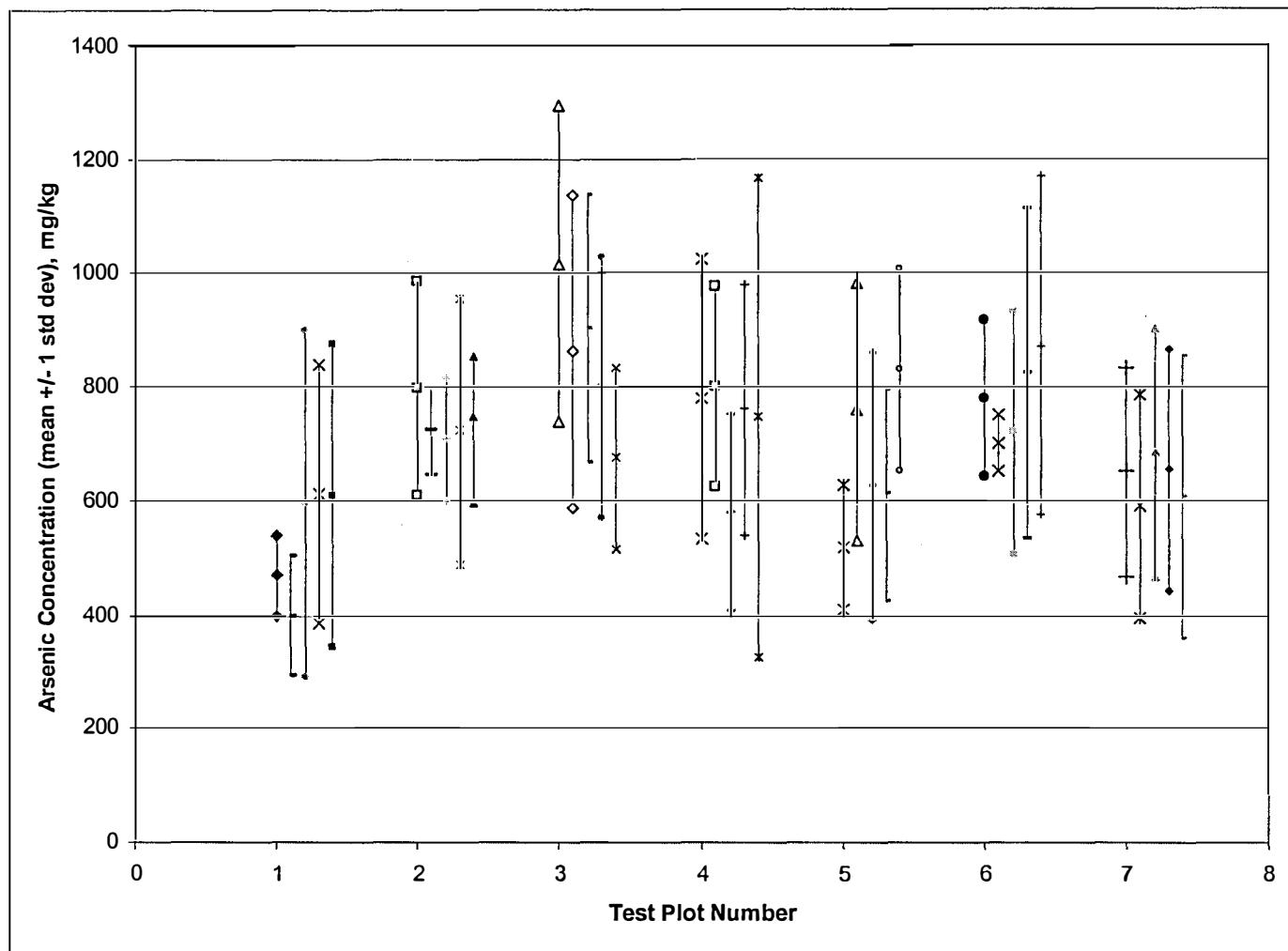
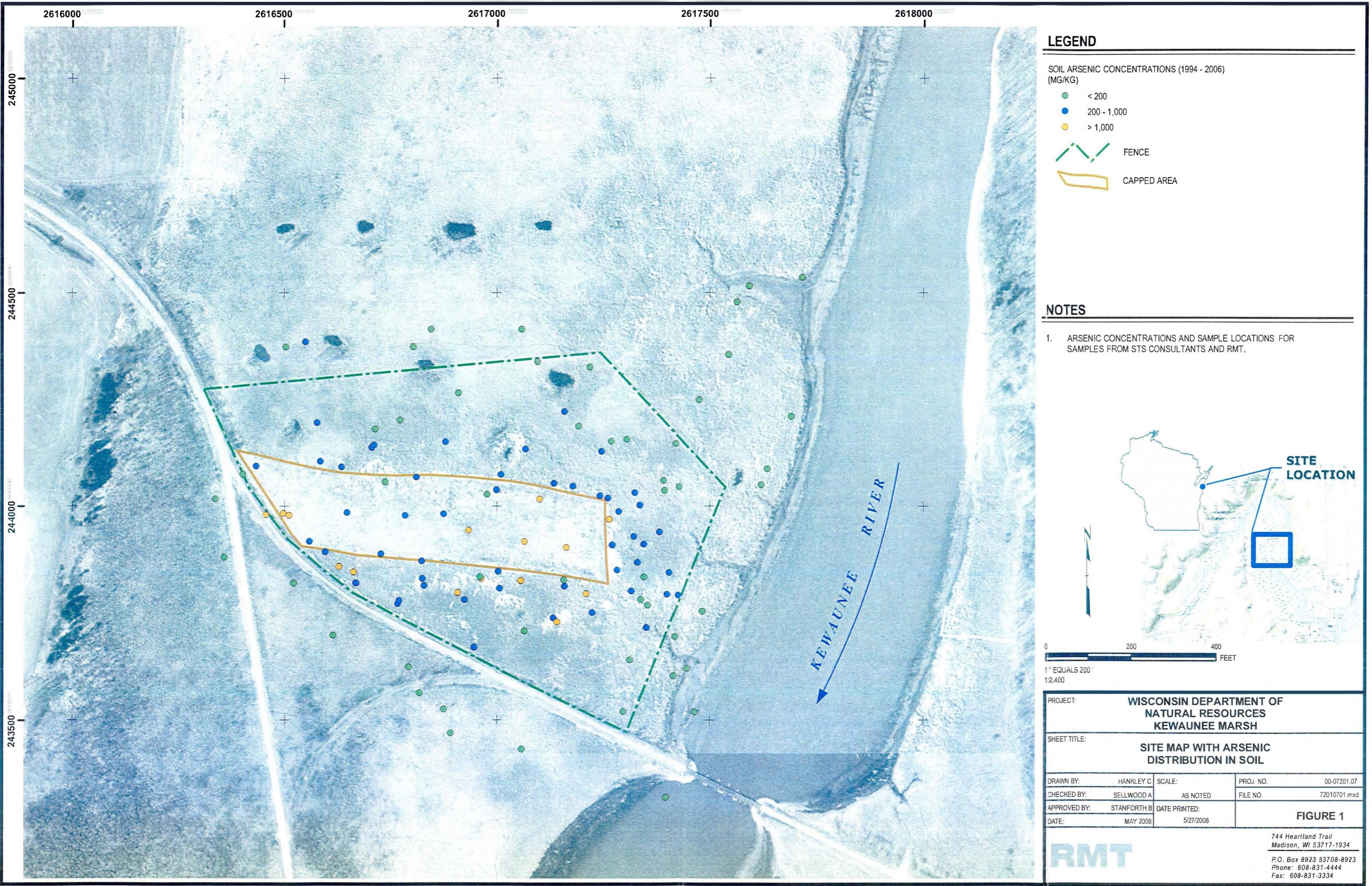
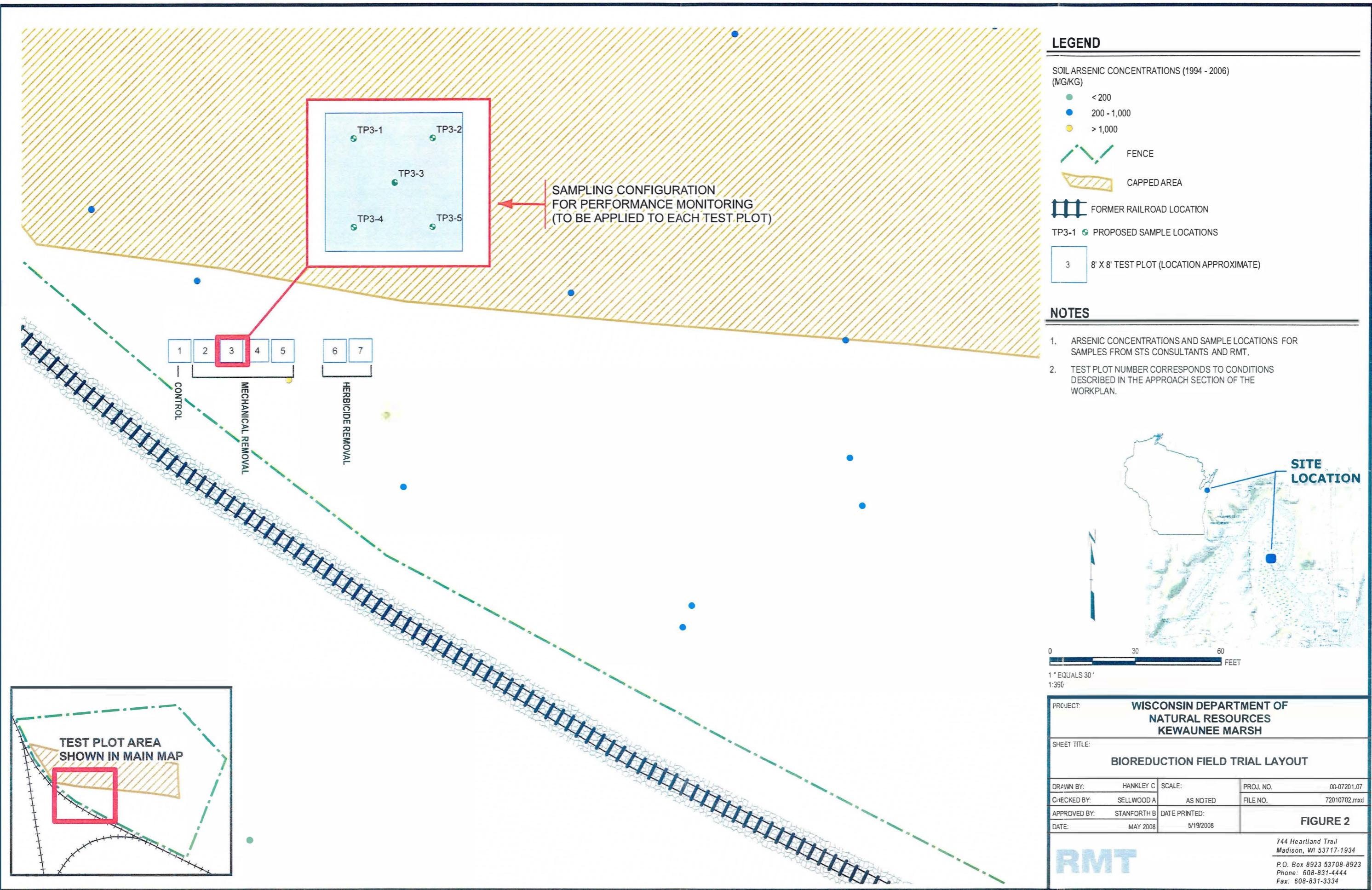


Figure 1
Arsenic Concentration in Kewaunee Test Plots in June Through October 2008

Appendix A

Maps of Marsh and Test Plot Area





Appendix B

Laboratory Data Sheets, Pace Laboratories

August 08, 2008

Dick Fish
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Dear Dick Fish:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334

South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334

South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|-----------|--------|----------------|----------------|
| 407143001 | PLOT 1-1 | Solid | 07/29/08 11:45 | 07/31/08 15:30 |
| 407143002 | PLOT 1-2 | Solid | 07/29/08 11:46 | 07/31/08 15:30 |
| 407143003 | PLOT 1-3 | Solid | 07/29/08 11:47 | 07/31/08 15:30 |
| 407143004 | PLOT 1-4 | Solid | 07/29/08 11:48 | 07/31/08 15:30 |
| 407143005 | PLOT 1-5 | Solid | 07/29/08 11:49 | 07/31/08 15:30 |
| 407143006 | PLOT 2-1 | Solid | 07/29/08 13:20 | 07/31/08 15:30 |
| 407143007 | PLOT 2-2 | Solid | 07/29/08 13:22 | 07/31/08 15:30 |
| 407143008 | PLOT 2-3 | Solid | 07/29/08 13:24 | 07/31/08 15:30 |
| 407143009 | PLOT 2-4 | Solid | 07/29/08 13:26 | 07/31/08 15:30 |
| 407143010 | PLOT 2-5 | Solid | 07/29/08 13:28 | 07/31/08 15:30 |
| 407143011 | PLOT 3-1 | Solid | 07/29/08 13:30 | 07/31/08 15:30 |
| 407143012 | PLOT 3-2 | Solid | 07/29/08 13:32 | 07/31/08 15:30 |
| 407143013 | PLOT 3-3 | Solid | 07/29/08 13:34 | 07/31/08 15:30 |
| 407143014 | PLOT 3-4 | Solid | 07/29/08 13:36 | 07/31/08 15:30 |
| 407143015 | PLOT 3-5 | Solid | 07/29/08 13:38 | 07/31/08 15:30 |
| 407143016 | PLOT 4-1 | Solid | 07/29/08 13:40 | 07/31/08 15:30 |
| 407143017 | PLOT 4-2 | Solid | 07/29/08 13:42 | 07/31/08 15:30 |
| 407143018 | PLOT 4-3 | Solid | 07/29/08 13:44 | 07/31/08 15:30 |
| 407143019 | PLOT 4-4 | Solid | 07/29/08 13:46 | 07/31/08 15:30 |
| 407143020 | PLOT 4-5 | Solid | 07/29/08 13:48 | 07/31/08 15:30 |
| 407143021 | PLOT 5-1 | Solid | 07/29/08 13:50 | 07/31/08 15:30 |
| 407143022 | PLOT 5-2 | Solid | 07/29/08 13:52 | 07/31/08 15:30 |
| 407143023 | PLOT 5-3 | Solid | 07/29/08 13:54 | 07/31/08 15:30 |
| 407143024 | PLOT 5-4 | Solid | 07/29/08 13:56 | 07/31/08 15:30 |
| 407143025 | PLOT 5-5 | Solid | 07/29/08 13:58 | 07/31/08 15:30 |
| 407143026 | PLOT 6-1 | Solid | 07/29/08 12:35 | 07/31/08 15:30 |
| 407143027 | PLOT 6-2 | Solid | 07/29/08 12:37 | 07/31/08 15:30 |
| 407143028 | PLOT 6-3 | Solid | 07/29/08 12:39 | 07/31/08 15:30 |
| 407143029 | PLOT 6-4 | Solid | 07/29/08 12:41 | 07/31/08 15:30 |
| 407143030 | PLOT 6-5 | Solid | 07/29/08 12:43 | 07/31/08 15:30 |
| 407143031 | PLOT 7-1 | Solid | 07/29/08 12:45 | 07/31/08 15:30 |
| 407143032 | PLOT 7-2 | Solid | 07/29/08 12:47 | 07/31/08 15:30 |
| 407143033 | PLOT 7-3 | Solid | 07/29/08 12:49 | 07/31/08 15:30 |
| 407143034 | PLOT 7-4 | Solid | 07/29/08 12:51 | 07/31/08 15:30 |
| 407143035 | PLOT 7-5 | Solid | 07/29/08 12:53 | 07/31/08 15:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------------------|-----------|-------------------|
| 407143001 | PLOT 1-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143002 | PLOT 1-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143003 | PLOT 1-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143004 | PLOT 1-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143005 | PLOT 1-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143006 | PLOT 2-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143007 | PLOT 2-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143008 | PLOT 2-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143009 | PLOT 2-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143010 | PLOT 2-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143011 | PLOT 3-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143012 | PLOT 3-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143013 | PLOT 3-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143014 | PLOT 3-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143015 | PLOT 3-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143016 | PLOT 4-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143017 | PLOT 4-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143018 | PLOT 4-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 407143019 | PLOT 4-4 | ASTM D2974-87 | AG | 1 |

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SAMPLE ANALYTE COUNT

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------|----------|-------------------|
| | | EPA 6010 | DLB | 1 |
| 407143020 | PLOT 4-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143021 | PLOT 5-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143022 | PLOT 5-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143023 | PLOT 5-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143024 | PLOT 5-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143025 | PLOT 5-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143026 | PLOT 6-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143027 | PLOT 6-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143028 | PLOT 6-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143029 | PLOT 6-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143030 | PLOT 6-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143031 | PLOT 7-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143032 | PLOT 7-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143033 | PLOT 7-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143034 | PLOT 7-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 407143035 | PLOT 7-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH

Pace Project No.: 407143

Sample: PLOT 1-1 Lab ID: 407143001 Collected: 07/29/08 11:45 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|-----|----------------|----------------|-----------|---------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 240 mg/kg | 5.0 | 0.29 | 1 | 08/04/08 15:12 | 08/04/08 23:49 | 7440-38-2 | | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.9 % | 0.10 | 0.10 | 1 | | 08/01/08 08:39 | | | |

Sample: PLOT 1-2 Lab ID: 407143002 Collected: 07/29/08 11:46 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|-----|----------------|----------------|-----------|---------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 509 mg/kg | 5.0 | 0.29 | 1 | 08/04/08 15:12 | 08/04/08 23:53 | 7440-38-2 | | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.9 % | 0.10 | 0.10 | 1 | | 08/01/08 08:40 | | | |

Sample: PLOT 1-3 Lab ID: 407143003 Collected: 07/29/08 11:47 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|-----|----------------|----------------|-----------|---------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 444 mg/kg | 5.0 | 0.30 | 1 | 08/04/08 15:12 | 08/04/08 23:57 | 7440-38-2 | | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.0 % | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | | |

Sample: PLOT 1-4 Lab ID: 407143004 Collected: 07/29/08 11:48 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|-----|----------------|----------------|-----------|---------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 350 mg/kg | 4.6 | 0.27 | 1 | 08/04/08 15:12 | 08/05/08 00:01 | 7440-38-2 | | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.3 % | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | | |

Date: 08/08/2008 03:06 PM

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

Sample: PLOT 1-5 Lab ID: 407143005 Collected: 07/29/08 11:49 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 449 mg/kg | | 5.6 | 0.33 | 1 | 08/04/08 15:12 | 08/05/08 00:05 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.2 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 2-1 Lab ID: 407143006 Collected: 07/29/08 13:20 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 780 mg/kg | | 4.6 | 0.27 | 1 | 08/04/08 15:12 | 08/05/08 00:08 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.5 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 2-2 Lab ID: 407143007 Collected: 07/29/08 13:22 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 632 mg/kg | | 5.3 | 0.31 | 1 | 08/04/08 15:12 | 08/05/08 00:12 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.0 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 2-3 Lab ID: 407143008 Collected: 07/29/08 13:24 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 695 mg/kg | | 5.8 | 0.34 | 1 | 08/04/08 15:12 | 08/05/08 00:16 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.8 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Date: 08/08/2008 03:06 PM

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

Sample: PLOT 2-4 Lab ID: 407143009 Collected: 07/29/08 13:26 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 677 mg/kg | | 5.3 | 0.31 | 1 | 08/04/08 15:12 | 08/05/08 00:28 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.1 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 2-5 Lab ID: 407143010 Collected: 07/29/08 13:28 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 820 mg/kg | | 5.9 | 0.35 | 1 | 08/04/08 15:12 | 08/05/08 00:32 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 83.0 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 3-1 Lab ID: 407143011 Collected: 07/29/08 13:30 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1080 mg/kg | | 5.8 | 0.34 | 1 | 08/04/08 15:12 | 08/05/08 00:36 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.7 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 3-2 Lab ID: 407143012 Collected: 07/29/08 13:32 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 799 mg/kg | | 5.8 | 0.34 | 1 | 08/04/08 15:12 | 08/05/08 00:40 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.8 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Date: 08/08/2008 03:06 PM

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

Sample: PLOT 3-3 Lab ID: 407143013 Collected: 07/29/08 13:34 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 766 mg/kg | | 5.5 | 0.32 | 1 | 08/04/08 15:12 | 08/05/08 00:44 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.7 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 3-4 Lab ID: 407143014 Collected: 07/29/08 13:36 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1180 mg/kg | | 16.2 | 0.96 | 1 | 08/04/08 20:00 | 08/06/08 12:24 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 87.7 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 3-5 Lab ID: 407143015 Collected: 07/29/08 13:38 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 490 mg/kg | | 11.0 | 0.65 | 1 | 08/04/08 20:00 | 08/06/08 12:28 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.9 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:41 | | |

Sample: PLOT 4-1 Lab ID: 407143016 Collected: 07/29/08 13:40 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 741 mg/kg | | 13.3 | 0.79 | 1 | 08/04/08 20:00 | 08/06/08 12:32 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 85.0 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:42 | | |

Date: 08/08/2008 03:06 PM

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Sample: PLOT 4-2 Lab ID: 407143017 Collected: 07/29/08 13:42 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1060 mg/kg | | 11.2 | 0.67 | 1 | 08/04/08 20:00 | 08/06/08 12:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.1 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:42 | | |

Sample: PLOT 4-3 Lab ID: 407143018 Collected: 07/29/08 13:44 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 576 mg/kg | | 11.7 | 0.69 | 1 | 08/04/08 20:00 | 08/06/08 12:47 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 83.0 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:42 | | |

Sample: PLOT 4-4 Lab ID: 407143019 Collected: 07/29/08 13:46 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 845 mg/kg | | 10.6 | 0.63 | 1 | 08/04/08 20:00 | 08/06/08 12:51 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.1 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:42 | | |

Sample: PLOT 4-5 Lab ID: 407143020 Collected: 07/29/08 13:48 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 781 mg/kg | | 11.3 | 0.67 | 1 | 08/04/08 20:00 | 08/06/08 12:55 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.2 % | | 0.10 | 0.10 | 1 | | 08/01/08 08:42 | | |

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Sample: PLOT 5-1 Lab ID: 407143021 Collected: 07/29/08 13:50 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 907 mg/kg | | 12.5 | 0.74 | 1 | 08/04/08 20:00 | 08/06/08 12:59 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 84.0 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

Sample: PLOT 5-2 Lab ID: 407143022 Collected: 07/29/08 13:52 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 653 mg/kg | | 11.7 | 0.69 | 1 | 08/04/08 20:00 | 08/06/08 13:03 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.9 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

Sample: PLOT 5-3 Lab ID: 407143023 Collected: 07/29/08 13:54 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 518 mg/kg | | 11.3 | 0.67 | 1 | 08/04/08 20:00 | 08/06/08 13:07 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.3 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

Sample: PLOT 5-4 Lab ID: 407143024 Collected: 07/29/08 13:56 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1070 mg/kg | | 12.2 | 0.72 | 1 | 08/04/08 20:00 | 08/06/08 13:11 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 83.5 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Sample: PLOT 5-5 Lab ID: 407143025 Collected: 07/29/08 13:58 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 637 mg/kg | | 11.9 | 0.70 | 1 | 08/04/08 20:00 | 08/06/08 13:15 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 83.2 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

Sample: PLOT 6-1 Lab ID: 407143026 Collected: 07/29/08 12:35 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 646 mg/kg | | 11.9 | 0.71 | 1 | 08/04/08 20:00 | 08/06/08 13:19 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 83.2 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:09 | | |

Sample: PLOT 6-2 Lab ID: 407143027 Collected: 07/29/08 12:37 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 736 mg/kg | | 9.6 | 0.57 | 1 | 08/04/08 20:00 | 08/06/08 13:30 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

Sample: PLOT 6-3 Lab ID: 407143028 Collected: 07/29/08 12:39 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 731 mg/kg | | 9.6 | 0.57 | 1 | 08/04/08 20:00 | 08/06/08 13:34 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Sample: PLOT 6-4 Lab ID: 407143029 Collected: 07/29/08 12:41 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 650 mg/kg | | 9.2 | 0.55 | 1 | 08/04/08 20:00 | 08/06/08 13:39 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.3 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

Sample: PLOT 6-5 Lab ID: 407143030 Collected: 07/29/08 12:43 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 739 mg/kg | | 10.4 | 0.62 | 1 | 08/04/08 20:00 | 08/06/08 13:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.8 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

Sample: PLOT 7-1 Lab ID: 407143031 Collected: 07/29/08 12:45 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 826 mg/kg | | 10.5 | 0.62 | 1 | 08/05/08 08:40 | 08/05/08 15:38 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.1 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

Sample: PLOT 7-2 Lab ID: 407143032 Collected: 07/29/08 12:47 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 546 mg/kg | | 9.7 | 0.57 | 1 | 08/05/08 08:40 | 08/05/08 15:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.3 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

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ANALYTICAL RESULTS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

Sample: PLOT 7-3 Lab ID: 407143033 Collected: 07/29/08 12:49 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 761 mg/kg | | 10.6 | 0.63 | 1 | 08/05/08 08:40 | 08/05/08 15:47 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.1 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:10 | | |

Sample: PLOT 7-4 Lab ID: 407143034 Collected: 07/29/08 12:51 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 412 mg/kg | | 10.6 | 0.63 | 1 | 08/05/08 08:40 | 08/05/08 15:51 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.1 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:11 | | |

Sample: PLOT 7-5 Lab ID: 407143035 Collected: 07/29/08 12:53 Received: 07/31/08 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 405 mg/kg | | 9.1 | 0.54 | 1 | 08/05/08 08:40 | 08/05/08 16:02 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.1 % | | 0.10 | 0.10 | 1 | | 08/02/08 07:11 | | |

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QUALITY CONTROL DATA

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/1645 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 407143001, 407143002, 407143003, 407143004, 407143005, 407143006, 407143007, 407143008, 407143009, 407143010, 407143011, 407143012, 407143013, 407143014, 407143015, 407143016, 407143017, 407143018, 407143019, 407143020 | | |

SAMPLE DUPLICATE: 59240

| Parameter | Units | 407143001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 79.9 | 77.5 | 3 | 10 | |

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QUALITY CONTROL DATA

Project: 7201.09 KEWAUNEE MARSH

Pace Project No.: 407143

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/1656 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 407143021, 407143022, 407143023, 407143024, 407143025, 407143026, 407143027, 407143028, 407143029, 407143030, 407143031, 407143032, 407143033, 407143034, 407143035 | | |

SAMPLE DUPLICATE: 59906

| Parameter | Units | 407143021 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 84.0 | 84.4 | .4 | 10 | |

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QUALITY CONTROL DATA

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

| | | | |
|-------------------------|--|-----------------------|----------|
| QC Batch: | MPRP/1590 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 407143001, 407143002, 407143003, 407143004, 407143005, 407143006, 407143007, 407143008, 407143009, 407143010, 407143011, 407143012, 407143013 | | |

METHOD BLANK: 60326

Associated Lab Samples: 407143001, 407143002, 407143003, 407143004, 407143005, 407143006, 407143007, 407143008, 407143009,
407143010, 407143011, 407143012, 407143013

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|-----------|-------|--------------|-----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | |

LABORATORY CONTROL SAMPLE: 60327

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 22.9 | 91 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60328 60329

| Parameter | Units | 407244002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|------|
| Arsenic | mg/kg | 3.1 | 28.8 | 28.7 | 26.8 | 26.3 | 83 | 81 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

| | | | |
|-------------------------|---|-----------------------|----------|
| QC Batch: | MPRP/1593 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 407143014, 407143015, 407143016, 407143017, 407143018, 407143019, 407143020, 407143021, 407143022, 407143023, 407143024, 407143025, 407143026, 407143027, 407143028, 407143029, 407143030 | | |

METHOD BLANK: 60381

Associated Lab Samples: 407143014, 407143015, 407143016, 407143017, 407143018, 407143019, 407143020, 407143021, 407143022, 407143023, 407143024, 407143025, 407143026, 407143027, 407143028, 407143029, 407143030

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|-----------|-------|--------------|-----------------|------------|
| Arsenic | mg/kg | <0.12 | 2.0 | |

LABORATORY CONTROL SAMPLE: 60382

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 25.0 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60383 60384

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD % Rec | MS % Rec | % Rec Limits | Max RPD | Max RPD | Max Qual |
|-----------|-------|-----------|-----------------|-----------|-----------------|-----------|-----------|----------|--------------|---------|---------|----------|
| Arsenic | mg/kg | 3.2 | 30.4 | 30.4 | 30.4 | 25.0 | 25.6 | 72 | 74 | 75-125 | 2 | 20 M0 |

QUALITY CONTROL DATA

Project: 7201.09 KEWAUNEE MARSH
 Pace Project No.: 407143

| | | | |
|---|-----------|-----------------------|----------|
| QC Batch: | MPRP/1594 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: 407143031, 407143032, 407143033, 407143034, 407143035 | | | |

METHOD BLANK: 60433

Associated Lab Samples: 407143031, 407143032, 407143033, 407143034, 407143035

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|-----------|-------|--------------|-----------------|------------|
| Arsenic | mg/kg | <0.12 | 2.0 | |

LABORATORY CONTROL SAMPLE: 60434

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 49.0 | 196 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60435 60436

| Parameter | Units | 407245004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|------|
| Arsenic | mg/kg | 3.7 | 29.2 | 29.2 | 60.7 | 60.3 | 195 | 194 | 75-125 | .6 | 20 | |

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QUALIFIERS

Project: 7201.09 KEWAUNEE MARSH
Pace Project No.: 407143

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Sample Condition Upon ReceiptClient Name: LMTProject # 407143

Courier: FedEx UPS USPS Client Commercial Pace Other _____
 Tracking #: _____

| | |
|----------------|-----------|
| Optional | Checkmark |
| Prod. Due Date | _____ |
| Prod. Name | _____ |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other _____Thermometer Used NH

Type of Ice: Wet Blue None

 Samples on ice, cooling process has begunCooler Temperature 40° T

Biological Tissue Is Frozen: Yes No

Comments: _____

Date and Initials of person examining
contents: 6/31/08

Temp should be above freezing to 6°C

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>S</u> | |
| All containers needing preservation have been checked. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

 _____Project Manager Review: DHDate: 7/31/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN OF CUSTODY RECORD

NO 063553



744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | | | |
|--|---|---------------------------------------|----------|
| Project No. 720109 | Project/Client: WDNR - Kenosha - March | Total Number Of Containers 2/14 | MATRIX |
| Project Manager/Contact Person: Dick Fish / Bob Stanforth | | | Comments |

| Lab No. | Yr. Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Analyses Requested | | Comments |
|---------|-------------|-------|-------------------|-------------------------------|--------|--------------------|-------------------|----------|
| | | | | | | Preserved (Code) | Filtered (Yes/No) | |
| 001 | 7/29 | 11:45 | Plot 1-1 | 1 | S | X | | |
| 002 | | 11:46 | 1-2 | 1 | | | | |
| 003 | | 11:47 | 1-3 | 1 | | | | |
| 004 | | 11:48 | 1-4 | 1 | | | | |
| 005 | | 11:49 | 1-5 | 1 | | | | 100% |
| 006 | | 13:20 | 2-1 | 1 | | | | |
| 007 | | 13:22 | 2-2 | 1 | | | | |
| 008 | | 13:24 | 2-3 | 1 | | | | |
| 009 | | 13:26 | 2-4 | 1 | | | | |
| 010 | V | 13:28 | 2-5 | 1 | | V | | |

SPECIAL INSTRUCTIONS

407143

| | | | | | | |
|---|------------------------------|------------------------|----------------------------|--|---|----------------------------|
| SAMPLER Relinquished by (Sig.) | Date/Time 7/31/08 8:45 AM | Received by (Sig.) | Date/Time 7/31/08 09:00 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) <input checked="" type="radio"/> Normal | Rush |
| Relinquished by (Sig.) | Date/Time 7/31/08 10:10 | Received by (Sig.) | Date/Time 7/31/08 12:03 | <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Report Due (For Lab Use Only) | |
| Relinquished by (Sig.) | Date/Time 7/31/08 15:30 | Received by (Sig.) | Date/Time 7/31/08 15:50 | | Receipt Temp: Temp Blank | Receipt pH (Wet/Metals) |
| Custody Seal: Present/Absent: Intact/Not Intact: Seal #'s | | | | | | |

CHAIN OF CUSTODY RECORD

NO: 063551

RMT

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|---------------------------------|--------------------|
| Project No. | Project/Client: |
| 7201-072 | WDNR Kenosha Marsh |
| Project Manager/Contact Person: | |
| DICK FISL / Bob Stanforth | |

| Lab No. | Yr. Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Filtered (Yes/No) | Preserved (Code) | Analyses Requested | | | | | | | | | | Comments |
|---------|-------------|-------|-------------------|-------------------------------|--------|-------------------|------------------|--------------------|--|------|--|------|--|------|--|------|--|----------|
| | | | | | | N | A | 131a | | 131b | | 131c | | 131d | | 131e | | |
| 011 | 7/29 | 13:30 | Plot 3-1 | 1 | S | X | | | | | | | | | | | | |
| 012 | | 13:32 | 3-2 | | | | | | | | | | | | | | | |
| 013 | | 13:34 | 3-3 | | | | | | | | | | | | | | | |
| 014 | | 13:36 | 3-4 | | | | | | | | | | | | | | | |
| 015 | | 13:38 | 3-5 | | | | | | | | | | | | | | | |
| 016 | | 13:40 | 4-1 | | | | | | | | | | | | | | | |
| 017 | | 13:42 | 4-2 | | | | | | | | | | | | | | | |
| 018 | | 13:44 | 4-3 | | | | | | | | | | | | | | | |
| 019 | | 13:46 | 4-4 | | | | | | | | | | | | | | | |
| 020 | ✓ | 13:48 | 4-5 | ✓ | ✓ | ✓ | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

407143

| | | | | | | | |
|---|----------------------------|--|----------------------------|---------------------------------------|---------------------------------------|---|-----------------------------|
| SAMPLER Relinquished by (Sig.) <i>D. Fins</i> | Date/Time 7/31/08 10:45 | Received by (Sig.) <i>D. Fins</i> | Date/Time 7/31/08 10:40 | HAZARDS ASSOCIATED WITH SAMPLES | | Turn Around (circle one) <input checked="" type="radio"/> Normal | Rush |
| Relinquished by (Sig.) <i>D. Fins</i> | Date/Time 7/31/08 12:17 | Received by (Sig.) <i>J. McCall</i> | Date/Time 7/31/08 13:05 | <input type="checkbox"/> Flammable | <input type="checkbox"/> Corrosive | Report Due | (For Lab Use Only) |
| Relinquished by (Sig.) <i>J. McCall</i> | Date/Time 7/31/08 15:30 | Received by (Sig.) <i>D. Fins</i> | Date/Time 7/31/08 15:30 | <input type="checkbox"/> Highly Toxic | <input type="checkbox"/> Other (list) | Receipt Temp: Temp Blank | Receipt pH: (Wet/Metals) |
| Custody Seal: Present/Absent: Intact/Not Intact: Seal #'s | | | | 15130 | | Y | N |



CHAIN OF CUSTODY RECORD

NO 063552

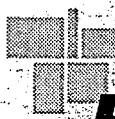
744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | | | |
|---------------------------------|-----------------|---------------------------|--|
| Project No. | Project/Client: | 2/1/04 | |
| 7201.09 WDNR-Keweenaw Marsh | | | |
| Project Manager/Contact Person: | | Dick Fish / Bob Stanforth | |

| Lab No. | Yr | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Analyses Requested | Comments: |
|---------|------|--------|-------|-------------------|-------------------------------|--------|--------------------|-----------|
| 021 | 2004 | 7/3/04 | 13:50 | Plot 5-1 | 1 | 5 | | |
| 022 | | 1 | 13:52 | 5-2 | 1 | 1 | | |
| 023 | | | 13:54 | 5-3 | | | | |
| 024 | | | 13:56 | 5-4 | | | | |
| 025 | | | 13:58 | 5-5 | | | | |
| 026 | | | 12:35 | 6-1 | | | | |
| 027 | | | 12:37 | 6-2 | | | | |
| 028 | | | 12:39 | 6-3 | | | | |
| 029 | | | 12:41 | 6-4 | | | | |
| 030 | | | 12:43 | 6-5 | V | V | V | |

SPECIAL INSTRUCTIONS

| | | | | | | |
|------------------------------------|-----------------------------------|------------------------|-------------------------------|--|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) | Date/Time 7/31/04 6:14:52AM | Received by (Sig.) | Date/Time 7/31/04 09:00 | HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) | Date/Time 7/31/04 11:00 | Received by (Sig.) | Date/Time 7/31/04 12:00 | | Report Due _____ | (For Lab Use Only) |
| Relinquished by (Sig.) | Date/Time 7/31/04 13:00 | Received by (Sig.) | Date/Time 7/31/04 15:00 | | Receipt Temp: Temp Blank Y N | Receipt pH (Wet/Metals) |
| Custody Seal: Present/Absent h6 | Infact/Not Infact | Seal #'s | | | | |



CHAIN OF CUSTODY RECORD

No. 063554

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|---------------------------------|------------------------|
| Project No. | Project/Client |
| 7201.09 | WDNR - Kawarauce Marsh |
| Project Manager/Contact Person: | |
| Dick Fish / Bob Stanforth | |

| Lab No. | Yr. Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Filtered (Yes/No) | Preserved (Code) | Comments: |
|---------|-------------|-------|-------------------|-------------------------------|--------|--------------------|------------------|-----------|
| | | | | | | Analyses Requested | | |
| 031 | 7/29 | 12:45 | Plot 7-1 | 1 | S | | | |
| 032 | | 12:47 | 7-2 | 1 | | | | |
| 033 | | 12:49 | 7-3 | 1 | | | | |
| 034 | | 12:51 | 7-4 | 1 | | | | |
| 035 | V | 12:53 | 7-5 | 1 | V | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SPECIAL INSTRUCTIONS

| | | | | | | |
|---|----------------------------|--|----------------------------|--|--------------------------------------|-----------------------------|
| SAMPLER Relinquished by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 12:00 | Received by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 09:00 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 12:00 | Received by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 12:00 | <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Report Due (For Lab Use Only) | |
| Relinquished by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 15:30 | Received by (Sig.) <i>D. Muller</i> | Date/Time 7/31/08 15:30 | | Receipt Temp: Temp Blank Y N | Receipt pH: (Wet/Metals) |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | | |

September 08, 2008

Dick Fish
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

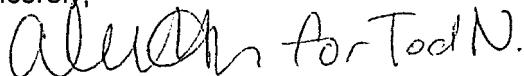
RE: Project: WDNR KEWAUNEE 8/26/08
Pace Project No.: 408346

Dear Dick Fish:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 20

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CERTIFICATIONS

Project: WDNR KEWAUNEE 8/26/08
Pace Project No.: 408346

Green Bay Certification IDs

Louisiana Certification #: 04168
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334

North Carolina Certification #: 503
North Dakota Certification #: R-150
New York Certification #: 11888
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87948

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169
Kentucky Certification #: 83
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334

North Carolina Certification #: 503
North Dakota Certification #: R-200
New York Certification #: 11887
Illinois Certification #: 200051
Florida (NELAP) Certification #: E87951

REPORT OF LABORATORY ANALYSIS

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30

SAMPLE SUMMARY

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|-----------|--------|----------------|----------------|
| 408346001 | PLOT 1-1 | Solid | 08/26/08 15:30 | 08/29/08 08:35 |
| 408346002 | PLOT 1-2 | Solid | 08/26/08 15:35 | 08/29/08 08:35 |
| 408346003 | PLOT 1-3 | Solid | 08/26/08 15:40 | 08/29/08 08:35 |
| 408346004 | PLOT 1-4 | Solid | 08/26/08 15:45 | 08/29/08 08:35 |
| 408346005 | PLOT 1-5 | Solid | 08/26/08 15:50 | 08/29/08 08:35 |
| 408346006 | PLOT 2-1 | Solid | 08/26/08 13:45 | 08/29/08 08:35 |
| 408346007 | PLOT 2-2 | Solid | 08/26/08 13:50 | 08/29/08 08:35 |
| 408346008 | PLOT 2-3 | Solid | 08/26/08 13:55 | 08/29/08 08:35 |
| 408346009 | PLOT 2-4 | Solid | 08/26/08 14:00 | 08/29/08 08:35 |
| 408346010 | PLOT 2-5 | Solid | 08/26/08 14:05 | 08/29/08 08:35 |
| 408346011 | PLOT 3-1 | Solid | 08/26/08 13:10 | 08/29/08 08:35 |
| 408346012 | PLOT 3-2 | Solid | 08/26/08 13:15 | 08/29/08 08:35 |
| 408346013 | PLOT 3-3 | Solid | 08/26/08 13:20 | 08/29/08 08:35 |
| 408346014 | PLOT 3-4 | Solid | 08/26/08 13:25 | 08/29/08 08:35 |
| 408346015 | PLOT 3-5 | Solid | 08/26/08 13:30 | 08/29/08 08:35 |
| 408346016 | PLOT 4-1 | Solid | 08/26/08 12:00 | 08/29/08 08:35 |
| 408346017 | PLOT 4-2 | Solid | 08/26/08 12:05 | 08/29/08 08:35 |
| 408346018 | PLOT 4-3 | Solid | 08/26/08 12:10 | 08/29/08 08:35 |
| 408346019 | PLOT 4-4 | Solid | 08/26/08 12:15 | 08/29/08 08:35 |
| 408346020 | PLOT 4-5 | Solid | 08/26/08 12:20 | 08/29/08 08:35 |
| 408346021 | PLOT 5-1 | Solid | 08/26/08 11:30 | 08/29/08 08:35 |
| 408346022 | PLOT 5-2 | Solid | 08/26/08 11:33 | 08/29/08 08:35 |
| 408346023 | PLOT 5-3 | Solid | 08/26/08 11:36 | 08/29/08 08:35 |
| 408346024 | PLOT 5-4 | Solid | 08/26/08 11:39 | 08/29/08 08:35 |
| 408346025 | PLOT 5-5 | Solid | 08/26/08 11:45 | 08/29/08 08:35 |
| 408346026 | PLOT 6-1 | Solid | 08/26/08 14:55 | 08/29/08 08:35 |
| 408346027 | PLOT 6-2 | Solid | 08/26/08 15:00 | 08/29/08 08:35 |
| 408346028 | PLOT 6-3 | Solid | 08/26/08 15:05 | 08/29/08 08:35 |
| 408346029 | PLOT 6-4 | Solid | 08/26/08 15:10 | 08/29/08 08:35 |
| 408346030 | PLOT 6-5 | Solid | 08/26/08 15:15 | 08/29/08 08:35 |
| 408346031 | PLOT 7-1 | Solid | 08/26/08 14:20 | 08/29/08 08:35 |
| 408346032 | PLOT 7-2 | Solid | 08/26/08 14:25 | 08/29/08 08:35 |
| 408346033 | PLOT 7-3 | Solid | 08/26/08 14:30 | 08/29/08 08:35 |
| 408346034 | PLOT 7-4 | Solid | 08/26/08 14:35 | 08/29/08 08:35 |
| 408346035 | PLOT 7-5 | Solid | 08/26/08 14:40 | 08/29/08 08:35 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------------------|-----------|-------------------|
| 408346001 | PLOT 1-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346002 | PLOT 1-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346003 | PLOT 1-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346004 | PLOT 1-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346005 | PLOT 1-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346006 | PLOT 2-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346007 | PLOT 2-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346008 | PLOT 2-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346009 | PLOT 2-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346010 | PLOT 2-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346011 | PLOT 3-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346012 | PLOT 3-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346013 | PLOT 3-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346014 | PLOT 3-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346015 | PLOT 3-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346016 | PLOT 4-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346017 | PLOT 4-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346018 | PLOT 4-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 408346019 | PLOT 4-4 | ASTM D2974-87 | GWS | 1 |

REPORT OF LABORATORY ANALYSIS

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32.

SAMPLE ANALYTE COUNT

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------|----------|-------------------|
| | | EPA 6010 | DLB | 1 |
| 408346020 | PLOT 4-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346021 | PLOT 5-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346022 | PLOT 5-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346023 | PLOT 5-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346024 | PLOT 5-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346025 | PLOT 5-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346026 | PLOT 6-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346027 | PLOT 6-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346028 | PLOT 6-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346029 | PLOT 6-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346030 | PLOT 6-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346031 | PLOT 7-1 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346032 | PLOT 7-2 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346033 | PLOT 7-3 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346034 | PLOT 7-4 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |
| 408346035 | PLOT 7-5 | ASTM D2974-87 | GWS | 1 |
| | | EPA 6010 | DLB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 1-1 Lab ID: 408346001 Collected: 08/26/08 15:30 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 713 mg/kg | | 4.3 | 0.25 | 1 | 09/02/08 14:23 | 09/03/08 16:44 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.6 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:48 | | |

Sample: PLOT 1-2 Lab ID: 408346002 Collected: 08/26/08 15:35 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 946 mg/kg | | 4.5 | 0.26 | 1 | 09/02/08 14:23 | 09/03/08 16:48 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.6 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:48 | | |

Sample: PLOT 1-3 Lab ID: 408346003 Collected: 08/26/08 15:40 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 293 mg/kg | | 4.2 | 0.25 | 1 | 09/02/08 14:23 | 09/03/08 16:52 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.0 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:48 | | |

Sample: PLOT 1-4 Lab ID: 408346004 Collected: 08/26/08 15:45 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 256 mg/kg | | 4.0 | 0.24 | 1 | 09/02/08 14:23 | 09/03/08 17:04 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 75.0 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:48 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 1-5 Lab ID: 408346005 Collected: 08/26/08 15:50 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 760 mg/kg | | 4.9 | 0.29 | 1 | 09/09/08 09:55 | 09/04/08 13:52 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.8 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:49 | | |

Sample: PLOT 2-1 Lab ID: 408346006 Collected: 08/26/08 13:45 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 783 mg/kg | | 3.7 | 0.22 | 1 | 09/09/08 09:55 | 09/04/08 13:56 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 72.9 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:49 | | |

Sample: PLOT 2-2 Lab ID: 408346007 Collected: 08/26/08 13:50 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 711 mg/kg | | 5.2 | 0.31 | 1 | 09/09/08 09:55 | 09/04/08 14:00 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:49 | | |

Sample: PLOT 2-3 Lab ID: 408346008 Collected: 08/26/08 13:55 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 807 mg/kg | | 5.2 | 0.31 | 1 | 09/09/08 09:55 | 09/04/08 14:04 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.6 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:49 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 2-4 Lab ID: 408346009 Collected: 08/26/08 14:00 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 532 mg/kg | | 4.7 | 0.28 | 1 | 09/09/08 09:55 | 09/04/08 14:08 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.8 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:49 | | |

Sample: PLOT 2-5 Lab ID: 408346010 Collected: 08/26/08 14:05 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 704 mg/kg | | 4.9 | 0.29 | 1 | 09/09/08 09:55 | 09/04/08 14:23 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.5 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 3-1 Lab ID: 408346011 Collected: 08/26/08 13:10 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 904 mg/kg | | 4.8 | 0.29 | 1 | 09/09/08 09:55 | 09/04/08 14:27 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.3 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 3-2 Lab ID: 408346012 Collected: 08/26/08 13:15 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 824 mg/kg | | 4.7 | 0.28 | 1 | 09/09/08 09:55 | 09/04/08 14:31 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.9 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

Sample: PLOT 3-3 Lab ID: 408346013 Collected: 08/26/08 13:20 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1200 mg/kg | | 4.6 | 0.27 | 1 | 09/09/08 09:55 | 09/04/08 14:35 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.2 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 3-4 Lab ID: 408346014 Collected: 08/26/08 13:25 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1010 mg/kg | | 4.8 | 0.28 | 1 | 09/09/08 09:55 | 09/04/08 14:39 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.0 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 3-5 Lab ID: 408346015 Collected: 08/26/08 13:30 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 565 mg/kg | | 5.0 | 0.30 | 1 | 09/09/08 09:55 | 09/04/08 14:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.1 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 4-1 Lab ID: 408346016 Collected: 08/26/08 12:00 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 564 mg/kg | | 4.9 | 0.29 | 1 | 09/09/08 09:55 | 09/04/08 14:46 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.5 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 4-2 Lab ID: 408346017 Collected: 08/26/08 12:05 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 493 mg/kg | | 4.8 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 20:51 | 7440-38-2 | P6 |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.1 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 4-3 Lab ID: 408346018 Collected: 08/26/08 12:10 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 645 mg/kg | | 4.7 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 21:10 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.9 % | | 0.10 | 0.10 | 1 | | 08/30/08 08:50 | | |

Sample: PLOT 4-4 Lab ID: 408346019 Collected: 08/26/08 12:15 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 822 mg/kg | | 5.5 | 0.33 | 1 | 09/03/08 12:36 | 09/03/08 21:14 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.8 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:41 | | |

Sample: PLOT 4-5 Lab ID: 408346020 Collected: 08/26/08 12:20 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 368 mg/kg | | 4.6 | 0.27 | 1 | 09/03/08 12:36 | 09/03/08 21:18 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.5 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:41 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

Sample: PLOT 5-1 Lab ID: 408346021 Collected: 08/26/08 11:30 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 460 mg/kg | | 4.9 | 0.29 | 1 | 09/03/08 12:36 | 09/03/08 21:22 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.7 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 5-2 Lab ID: 408346022 Collected: 08/26/08 11:33 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 317 mg/kg | | 3.5 | 0.21 | 1 | 09/03/08 12:36 | 09/03/08 21:26 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 71.5 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 5-3 Lab ID: 408346023 Collected: 08/26/08 11:36 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 698 mg/kg | | 4.6 | 0.27 | 1 | 09/03/08 12:36 | 09/03/08 21:30 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.3 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 5-4 Lab ID: 408346024 Collected: 08/26/08 11:39 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 892 mg/kg | | 5.2 | 0.31 | 1 | 09/03/08 12:36 | 09/03/08 21:33 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 5-5 Lab ID: 408346025 Collected: 08/26/08 11:45 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 761 mg/kg | | 5.3 | 0.32 | 1 | 09/03/08 12:36 | 09/03/08 21:37 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.3 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 6-1 Lab ID: 408346026 Collected: 08/26/08 14:55 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 745 mg/kg | | 4.7 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 21:49 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.6 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 6-2 Lab ID: 408346027 Collected: 08/26/08 15:00 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 739 mg/kg | | 4.7 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 21:53 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.6 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 6-3 Lab ID: 408346028 Collected: 08/26/08 15:05 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 920 mg/kg | | 4.8 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 21:57 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08
 Pace Project No.: 408346

Sample: PLOT 6-4 Lab ID: 408346029 Collected: 08/26/08 15:10 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 362 mg/kg | | 4.3 | 0.25 | 1 | 09/03/08 12:36 | 09/03/08 22:01 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.6 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 6-5 Lab ID: 408346030 Collected: 08/26/08 15:15 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 829 mg/kg | | 5.1 | 0.30 | 1 | 09/03/08 12:36 | 09/03/08 22:05 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.4 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:42 | | |

Sample: PLOT 7-1 Lab ID: 408346031 Collected: 08/26/08 14:20 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 353 mg/kg | | 4.7 | 0.28 | 1 | 09/03/08 12:36 | 09/03/08 22:09 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.6 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:43 | | |

Sample: PLOT 7-2 Lab ID: 408346032 Collected: 08/26/08 14:25 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 650 mg/kg | | 5.0 | 0.30 | 1 | 09/03/08 12:36 | 09/03/08 22:13 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.2 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:43 | | |

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ANALYTICAL RESULTS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

Sample: PLOT 7-3 Lab ID: 408346033 Collected: 08/26/08 14:30 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 711 mg/kg | | 4.8 | 0.29 | 1 | 09/03/08 12:36 | 09/03/08 22:16 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.3 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:43 | | |

Sample: PLOT 7-4 Lab ID: 408346034 Collected: 08/26/08 14:35 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 753 mg/kg | | 3.9 | 0.23 | 1 | 09/03/08 12:36 | 09/03/08 22:20 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 74.5 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:43 | | |

Sample: PLOT 7-5 Lab ID: 408346035 Collected: 08/26/08 14:40 Received: 08/29/08 08:35 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 952 mg/kg | | 6.9 | 0.41 | 1 | 09/03/08 12:36 | 09/03/08 22:24 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 85.6 % | | 0.10 | 0.10 | 1 | | 09/03/08 07:43 | | |

Date: 09/08/2008 03:08 PM

REPORT OF LABORATORY ANALYSIS

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42

QUALITY CONTROL DATA

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/1784 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 408346001, 408346002, 408346003, 408346004, 408346005, 408346006, 408346007, 408346008, 408346009, 408346010, 408346011, 408346012, 408346013, 408346014, 408346015, 408346016, 408346017, 408346018 | | |

SAMPLE DUPLICATE: 71381

| Parameter | Units | 408371049 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 18.3 | 18.2 | .2 | 10 | |

Date: 09/08/2008 03:08 PM

REPORT OF LABORATORY ANALYSIS

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43

QUALITY CONTROL DATA

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/1785 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 408346019, 408346020, 408346021, 408346022, 408346023, 408346024, 408346025, 408346026, 408346027, 408346028, 408346029, 408346030, 408346031, 408346032, 408346033, 408346034, 408346035 | | |

SAMPLE DUPLICATE: 71445

| Parameter | Units | 408346019 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 81.8 | 82.5 | .8 | 10 | |

Date: 09/08/2008 03:08 PM

REPORT OF LABORATORY ANALYSIS

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44

QUALITY CONTROL DATA

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

QC Batch: MPRP/1704 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 408346001, 408346002, 408346003, 408346004

METHOD BLANK: 71654 Matrix: Solid

Associated Lab Samples: 408346001, 408346002, 408346003, 408346004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | 09/03/08 14:48 | |

LABORATORY CONTROL SAMPLE: 71655

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 25.5 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71656 71657

| Parameter | Units | 1079558002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|------|
| Arsenic | mg/kg | 5.9 | 25 | 25 | 31.4 | 32.0 | 91 | 94 | 75-125 | 2 | 20 | |

Date: 09/08/2008 03:08 PM

REPORT OF LABORATORY ANALYSIS

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45

QUALITY CONTROL DATA

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

| | | | |
|--|-----------|-----------------------|----------|
| QC Batch: | MPRP/1705 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: 408346005, 408346006, 408346007, 408346008, 408346009, 408346010, 408346011, 408346012, 408346013, 408346014, 408346015, 408346016 | | | |

| | | | |
|--|-------|---------|-------|
| METHOD BLANK: | 71822 | Matrix: | Solid |
| Associated Lab Samples: 408346005, 408346006, 408346007, 408346008, 408346009, 408346010, 408346011, 408346012, 408346013, 408346014, 408346015, 408346016 | | | |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | 09/04/08 12:55 | |

LABORATORY CONTROL SAMPLE: 71823

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 24.7 | 99 | 80-120 | |

| | | | | | | | | | | | |
|----------------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|-------|
| MATRIX SPIKE & MATRIX DUPLICATE: | 71824 | 71825 | | | | | | | | | |
| Parameter | Units | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
| Arsenic | mg/kg | 408404007 | 4.3 | 29.3 | 29.3 | 33.4 | 38.2 | 99 | 116 | 75-125 | 13 20 |

QUALITY CONTROL DATA

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

| | | | |
|-------------------------|---|-----------------------|----------|
| QC Batch: | MPRP/1706 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 408346017, 408346018, 408346019, 408346020, 408346021, 408346022, 408346023, 408346024, 408346025, 408346026, 408346027, 408346028, 408346029, 408346030, 408346031, 408346032, 408346033, 408346034, 408346035 | | |

METHOD BLANK: 71849 Matrix: Solid

Associated Lab Samples: 408346017, 408346018, 408346019, 408346020, 408346021, 408346022, 408346023, 408346024, 408346025, 408346026, 408346027, 408346028, 408346029, 408346030, 408346031, 408346032, 408346033, 408346034, 408346035

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | 09/03/08 20:43 | |

LABORATORY CONTROL SAMPLE: 71850

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 24.3 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71851 71852

| Parameter | Units | 408346017 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Max Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|----------|
| Arsenic | mg/kg | 493 | 119 | 119 | 874 | 784 | 318 | 243 | 75-125 | 11 | 20 | P6 |

Date: 09/08/2008 03:08 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WDNR KEWAUNEE 8/26/08

Pace Project No.: 408346

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Sample Condition Upon Receipt



Client Name: RWT

Project # 408346

Courier: FedEx UPS USPS Client Commercial Pace Other _____
 Tracking #: _____

| | |
|-------------|-----------------|
| Optional: | Proj. Due Date: |
| Proj. Name: | _____ |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature RD1

Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 4/29/08

Temp should be above freezing to 6°C

Comments: _____

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>5</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input type="checkbox"/> No | Initial when completed |
| Samples checked for dechlorination: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Lot # of added preservative |
| Headspace in VOA Vials (>6mm): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14. |
| Trip Blank Custody Seals Present | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Pace Trip Blank Lot # (if purchased): | | 16. |

Client Notification/Resolution:

Field Data Required?

Y / N

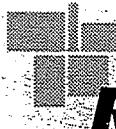
Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DH _____

Date: 8/29/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



CHAIN OF CUSTODY RECORD

REC 063565

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | | | |
|---------------------------------|----------------------|----------------------------|--------|
| Project No. | Project/Client | Total Number Of Containers | MATRIX |
| 720109 | WDNR Kawarau 8/26/08 | | |
| Project Manager/Contact Person: | | | |
| Dick Fish / Bob Stanton | | | |

| Lab No. | Yr Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Comments |
|---------|------------|--------|-------------------|----------------------------|--------|----------|
| 001 | 8/26 | 3:30PM | Plot 1-1 | 1 | 5 | 2 plots |
| 002 | | 3:35 | 1-2 | 1 | | |
| 003 | | 3:40 | 1-3 | 1 | | |
| 004 | | 3:45 | 1-4 | 1 | | |
| 005 | | 3:50 | 1-5 | 1 | | |
| 006 | | 1:45PM | 2-1 | 1 | | |
| 007 | | 2:50 | 2-2 | 1 | | |
| 008 | | 1:55 | 2-3 | 1 | | |
| 009 | | 2:00 | 2-4 | 1 | | |
| 010 | ✓ | 2:05 | 2-5 | 1 | | |

SPECIAL INSTRUCTIONS

408346

| | | | | | | |
|--|---------------------------------|--|---------------------------------|--|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) <i>Kent McCord</i> | Date/Time 8/26/08 7:00 AM | Received by (Sig.) <i>D. Farren</i> | Date/Time 8/26/08 7:00 AM | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. Farren</i> | Date/Time 8/26/08 7:00 AM | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable | (For Lab Use Only) | |
| Relinquished by (Sig.) <i>WALTER</i> | Date/Time 8/26/08 7:00 AM | Received by (Sig.) | Date/Time 8/26/08 7:00 AM | <input type="checkbox"/> Corrosive | | |
| Custody Seal: Present/Absent Intact/Not Intact | Seal #'s | | | <input type="checkbox"/> Highly Toxic | Receipt Temp: Temp. Blank | Receipt pH (Wet/Metals) |
| | | | | <input type="checkbox"/> Other (list): | | |

CHAIN OF CUSTODY RECORD

NO 663566

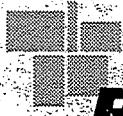


744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| Project No. | | Project/Client: | | Total Number Of Containers | MATRIX | Filtered (Yes/No) | Preserved (Code) | | | | | | |
|-------------|------|-----------------|----------|----------------------------|--------|--------------------|------------------|---|--|--|----------|--|---------|
| Lab. No. | Yr. | Date | Time | | | Analyses Requested | | | | | Comments | | |
| 011 | 8/26 | 1:10PM | Plot 3-1 | | 5 | | | | | | | | 1-Block |
| 012 | | 1:15PM | 3-2 | | | | | | | | | | |
| 013 | | 1:20PM | 3-3 | | | | | | | | | | |
| 014 | | 1:25PM | 3-4 | | | | | | | | | | |
| 015 | | 1:30PM | 3-5 | | | | | | | | | | |
| 016 | | 1:35PM | 4-1 | | | | | | | | | | |
| 017 | | 12:05 | 4-2 | | | | | | | | | | |
| 018 | | 12:10 | 4-3 | | | | | | | | | | |
| 019 | | 12:15 | 4-4 | | | | | | | | | | |
| 020 | | 12:20 | 4-5 | | | V | V | V | | | | | |

SPECIAL INSTRUCTIONS

| | | | | | | |
|---|--------------------------------|--|--------------------------------|---------------------------------------|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) <i>Ken McCord</i> | Date/Time 8/26/08 7:00AM | Received by (Sig.) <i>D. Fournier</i> | Date/Time 8/26/08 7:00AM | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. Fournier</i> | Date/Time 8/26/08 7:00AM | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable | (For Lab Use Only) | |
| Relinquished by (Sig.) <i>WATTS</i> | Date/Time 8/26/08 7:00AM | Received by (Sig.) | Date/Time 8/26/08 7:00AM | <input type="checkbox"/> Corrosive | | |
| | | | | <input type="checkbox"/> Highly Toxic | Receipt Temp: 20 | Receipt pH (Wet/Metals) |
| | | | | <input type="checkbox"/> Other (list) | Temp Blank Y N | |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | | |



CHAIN OF CUSTODY RECORD

NO 063567

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| Project No. | Project/Client: | Total Number Of Containers | MATRIX | Comments |
|---------------------------------|--------------------------|----------------------------|----------|-------------------|
| 7201-04 | WDNR Renewance 3/26/58 | | | |
| Project Manager/Contact Person: | Dick FISI / Bob Standard | | | |
| Lab No. | Yr | Date | Time | Sample Station ID |
| 021 | 08 | 3/26 | 11:30 AM | Plot 5-1 |
| 022 | | | 1:33 | 5-2 |
| 023 | | | 1:36 | 5-3 |
| 024 | | | 1:39 | 5-4 |
| 025 | | | 1:45 | 5-5 |
| 026 | | | 2:55 PM | 6-1 |
| 027 | | | 3:00 | 6-2 |
| 028 | | | 3:05 | 6-3 |
| 029 | | | 3:10 | 6-4 |
| 030 | | | 3:15 | 6-5 |

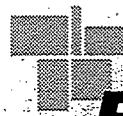
| Filtered (Yes/No) | Preserved (Code) | PRESERVED CODES |
|-------------------|------------------|------------------------------------|
| | | A - NONE |
| | | B - HNO ₃ |
| | | C - H ₂ SO ₄ |
| | | D - NaOH |
| | | E - HCl |
| | | F - METHANOL |
| | | G - |

Analysis Requested

SPECIAL INSTRUCTIONS

410346

| | | | | | | |
|--|---------------------------------|--|---------------------------------|---------------------------------------|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) <i>Kent McCord</i> | Date/Time 3/25/06 7:00 AM | Received by (Sig.) <i>D. Standard</i> | Date/Time 3/25/06 1:30 PM | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. Standard</i> | Date/Time 3/26/06 1:30 PM | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable | (For Lab Use Only) | |
| Relinquished by (Sig.) <i>J. Jackson</i> | Date/Time 3/26/06 8:30 AM | Received by (Sig.) | Date/Time 3/26/06 8:30 AM | <input type="checkbox"/> Corrosive | | |
| Custody Seal Present/Absent | Intact/Not Intact | Seal #'s | | <input type="checkbox"/> Highly Toxic | Receipt Temp Temp Blank | Receipt pH (Wet/Metals) |
| | | | | <input type="checkbox"/> Other (list) | Y | N |



RMT

CHAIN OF CUSTODY RECORD

NP 063568

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

SPECIAL INSTRUCTIONS

| | | | | | | |
|---|---------------------------------|--------------------------------------|-------------------------------|---|------------------------------------|------|
| SAMPLER Relinquished by (Sig.) <i>Leanne McCord</i> | Date/Time 8/25/03 7:22 AM | Received by (Sig.) <i>John D.</i> | Date/Time 8/25/03 15:10 | HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>B. Brumley</i> | Date/Time 7/10 | Received by (Sig.) | Date/Time | (For Lab Use Only) | | |
| Relinquished by (Sig.) <i>W. W. L.</i> | Date/Time 8/25/03 7:22 AM | Received by (Sig.) <i>SPG</i> | Date/Time 8/25/03 15:15 | Receipt Temp Temp Blank: Y N | Receipt pH (Wet/Metals) | |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | | |

October 15, 2008

Dick Fish
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Dear Dick Fish:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alysha for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Green Bay Certification IDs

Louisiana Certification #: 04169

Louisiana Certification #: 04168

Kentucky Certification #: 83

Kentucky Certification #: 82

Wisconsin DATCP Certification #: 105-444

Wisconsin DATCP Certification #: 105-444

Wisconsin Certification #: 405132750

Wisconsin Certification #: 405132750

South Carolina Certification #: 83006001

South Carolina Certification #: 83006001

Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334

North Carolina Certification #: 503

North Carolina Certification #: 503

North Dakota Certification #: R-200

North Dakota Certification #: R-150

New York Certification #: 11888

New York Certification #: 11887

Illinois Certification #: 200051

Illinois Certification #: 200050

Florida (NELAP) Certification #: E87951

Florida (NELAP) Certification #: E87948

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 409835

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|-----------|--------|----------------|----------------|
| 409835001 | PLOT 7-1 | Solid | 09/30/08 15:25 | 10/03/08 08:55 |
| 409835002 | PLOT 7-2 | Solid | 09/30/08 15:30 | 10/03/08 08:55 |
| 409835003 | PLOT 7-3 | Solid | 09/30/08 15:35 | 10/03/08 08:55 |
| 409835004 | PLOT 7-4 | Solid | 09/30/08 15:40 | 10/03/08 08:55 |
| 409835005 | PLOT 7-5 | Solid | 09/30/08 15:45 | 10/03/08 08:55 |
| 409835006 | PLOT 5-1 | Solid | 09/30/08 14:00 | 10/03/08 08:55 |
| 409835007 | PLOT 5-2 | Solid | 09/30/08 14:05 | 10/03/08 08:55 |
| 409835008 | PLOT 5-3 | Solid | 09/30/08 14:10 | 10/03/08 08:55 |
| 409835009 | PLOT 5-4 | Solid | 09/30/08 14:15 | 10/03/08 08:55 |
| 409835010 | PLOT 5-5 | Solid | 09/30/08 14:20 | 10/03/08 08:55 |
| 409835011 | PLOT 6-1 | Solid | 09/30/08 15:00 | 10/03/08 08:55 |
| 409835012 | PLOT 6-2 | Solid | 09/30/08 15:05 | 10/03/08 08:55 |
| 409835013 | PLOT 6-3 | Solid | 09/30/08 15:10 | 10/03/08 08:55 |
| 409835014 | PLOT 6-4 | Solid | 09/30/08 15:15 | 10/03/08 08:55 |
| 409835015 | PLOT 6-5 | Solid | 09/30/08 15:20 | 10/03/08 08:55 |
| 409835016 | PLOT 3-1 | Solid | 09/30/08 12:45 | 10/03/08 08:55 |
| 409835017 | PLOT 3-2 | Solid | 09/30/08 12:50 | 10/03/08 08:55 |
| 409835018 | PLOT 3-3 | Solid | 09/30/08 12:55 | 10/03/08 08:55 |
| 409835019 | PLOT 3-4 | Solid | 09/30/08 13:00 | 10/03/08 08:55 |
| 409835020 | PLOT 3-5 | Solid | 09/30/08 13:05 | 10/03/08 08:55 |
| 409835021 | PLOT 4-1 | Solid | 09/30/08 13:30 | 10/03/08 08:55 |
| 409835022 | PLOT 4-2 | Solid | 09/30/08 13:35 | 10/03/08 08:55 |
| 409835023 | PLOT 4-3 | Solid | 09/30/08 13:40 | 10/03/08 08:55 |
| 409835024 | PLOT 4-4 | Solid | 09/30/08 13:45 | 10/03/08 08:55 |
| 409835025 | PLOT 4-5 | Solid | 09/30/08 13:50 | 10/03/08 08:55 |
| 409835026 | PLOT 1-1 | Solid | 09/30/08 11:30 | 10/03/08 08:55 |
| 409835027 | PLOT 1-2 | Solid | 09/30/08 11:35 | 10/03/08 08:55 |
| 409835028 | PLOT 1-3 | Solid | 09/30/08 11:40 | 10/03/08 08:55 |
| 409835029 | PLOT 1-4 | Solid | 09/30/08 11:45 | 10/03/08 08:55 |
| 409835030 | PLOT 1-5 | Solid | 09/30/08 11:50 | 10/03/08 08:55 |
| 409835031 | PLOT 2-1 | Solid | 09/30/08 12:00 | 10/03/08 08:55 |
| 409835032 | PLOT 2-2 | Solid | 09/30/08 12:05 | 10/03/08 08:55 |
| 409835033 | PLOT 2-3 | Solid | 09/30/08 12:10 | 10/03/08 08:55 |
| 409835034 | PLOT 2-4 | Solid | 09/30/08 12:15 | 10/03/08 08:55 |
| 409835035 | PLOT 2-5 | Solid | 09/30/08 12:20 | 10/03/08 08:55 |

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SAMPLE ANALYTE COUNT

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------------------|-----------|-------------------|
| 409835001 | PLOT 7-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835002 | PLOT 7-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835003 | PLOT 7-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835004 | PLOT 7-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835005 | PLOT 7-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835006 | PLOT 5-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835007 | PLOT 5-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835008 | PLOT 5-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835009 | PLOT 5-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835010 | PLOT 5-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835011 | PLOT 6-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835012 | PLOT 6-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835013 | PLOT 6-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835014 | PLOT 6-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835015 | PLOT 6-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835016 | PLOT 3-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835017 | PLOT 3-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835018 | PLOT 3-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 409835019 | PLOT 3-4 | ASTM D2974-87 | AG | 1 |

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SAMPLE ANALYTE COUNT

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 409835

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-----------|-----------|---------------|----------|-------------------|
| | | EPA 6010 | DLB | 1 |
| 409835020 | PLOT 3-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835021 | PLOT 4-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835022 | PLOT 4-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835023 | PLOT 4-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835024 | PLOT 4-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835025 | PLOT 4-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835026 | PLOT 1-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835027 | PLOT 1-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835028 | PLOT 1-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835029 | PLOT 1-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835030 | PLOT 1-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835031 | PLOT 2-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835032 | PLOT 2-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835033 | PLOT 2-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835034 | PLOT 2-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 409835035 | PLOT 2-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 7-1 Lab ID: 409835001 Collected: 09/30/08 15:25 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 498 mg/kg | | 4.6 | 0.27 | 1 | 10/07/08 15:20 | 10/08/08 17:23 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.2 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

Sample: PLOT 7-2 Lab ID: 409835002 Collected: 09/30/08 15:30 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 556 mg/kg | | 4.2 | 0.25 | 1 | 10/07/08 15:20 | 10/08/08 17:27 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.3 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

Sample: PLOT 7-3 Lab ID: 409835003 Collected: 09/30/08 15:35 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 916 mg/kg | | 4.3 | 0.25 | 1 | 10/07/08 15:20 | 10/08/08 17:31 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

Sample: PLOT 7-4 Lab ID: 409835004 Collected: 09/30/08 15:40 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 461 mg/kg | | 4.8 | 0.28 | 1 | 10/07/08 15:20 | 10/08/08 17:35 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 7-5 Lab ID: 409835005 Collected: 09/30/08 15:45 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 844 mg/kg | | 4.0 | 0.24 | 1 | 10/07/08 15:20 | 10/08/08 17:39 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 75.3 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

Sample: PLOT 5-1 Lab ID: 409835006 Collected: 09/30/08 14:00 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 513 mg/kg | | 5.1 | 0.30 | 1 | 10/07/08 15:20 | 10/08/08 17:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.5 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:46 | | |

Sample: PLOT 5-2 Lab ID: 409835007 Collected: 09/30/08 14:05 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 444 mg/kg | | 5.4 | 0.32 | 1 | 10/07/08 15:20 | 10/08/08 17:47 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.5 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:47 | | |

Sample: PLOT 5-3 Lab ID: 409835008 Collected: 09/30/08 14:10 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 478 mg/kg | | 4.6 | 0.27 | 1 | 10/07/08 15:20 | 10/08/08 17:51 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.3 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:47 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 5-4 Lab ID: 409835009 Collected: 09/30/08 14:15 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 834 mg/kg | | 4.5 | 0.27 | 1 | 10/07/08 15:20 | 10/08/08 17:55 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.7 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:47 | | |

Sample: PLOT 5-5 Lab ID: 409835010 Collected: 09/30/08 14:20 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 785 mg/kg | | 4.5 | 0.26 | 1 | 10/07/08 15:20 | 10/08/08 18:07 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:47 | | |

Sample: PLOT 6-1 Lab ID: 409835011 Collected: 09/30/08 15:00 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1240 mg/kg | | 4.7 | 0.28 | 1 | 10/07/08 15:20 | 10/08/08 18:11 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.9 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:47 | | |

Sample: PLOT 6-2 Lab ID: 409835012 Collected: 09/30/08 15:05 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 564 mg/kg | | 4.5 | 0.26 | 1 | 10/07/08 15:20 | 10/08/08 18:15 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:35 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 6-3 Lab ID: 409835013 Collected: 09/30/08 15:10 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 948 mg/kg | | 4.3 | 0.25 | 1 | 10/07/08 15:20 | 10/08/08 18:19 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.9 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:35 | | |

Sample: PLOT 6-4 Lab ID: 409835014 Collected: 09/30/08 15:15 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 549 mg/kg | | 4.2 | 0.25 | 1 | 10/07/08 15:20 | 10/08/08 18:23 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.4 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

Sample: PLOT 6-5 Lab ID: 409835015 Collected: 09/30/08 15:20 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 816 mg/kg | | 4.1 | 0.24 | 1 | 10/09/08 09:00 | 10/10/08 13:46 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 75.4 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

Sample: PLOT 3-1 Lab ID: 409835016 Collected: 09/30/08 12:45 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 864 mg/kg | | 5.0 | 0.30 | 1 | 10/09/08 15:55 | 10/10/08 14:09 | 7440-38-2 | P6 |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.2 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 409835

Sample: PLOT 3-2 Lab ID: 409835017 Collected: 09/30/08 12:50 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 749 mg/kg | | 4.7 | 0.28 | 1 | 10/09/08 15:55 | 10/10/08 14:21 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

Sample: PLOT 3-3 Lab ID: 409835018 Collected: 09/30/08 12:55 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 703 mg/kg | | 4.5 | 0.26 | 1 | 10/09/08 15:55 | 10/10/08 14:25 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.7 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

Sample: PLOT 3-4 Lab ID: 409835019 Collected: 09/30/08 13:00 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1150 mg/kg | | 5.0 | 0.30 | 1 | 10/09/08 15:55 | 10/10/08 14:29 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.1 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

Sample: PLOT 3-5 Lab ID: 409835020 Collected: 09/30/08 13:05 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 533 mg/kg | | 4.8 | 0.28 | 1 | 10/09/08 15:55 | 10/10/08 14:33 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:36 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 4-1 Lab ID: 409835021 Collected: 09/30/08 13:30 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 636 mg/kg | | 4.7 | 0.28 | 1 | 10/09/08 15:55 | 10/10/08 14:37 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.8 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 4-2 Lab ID: 409835022 Collected: 09/30/08 13:35 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 764 mg/kg | | 5.2 | 0.31 | 1 | 10/09/08 15:55 | 10/10/08 14:41 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 4-3 Lab ID: 409835023 Collected: 09/30/08 13:40 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 747 mg/kg | | 4.9 | 0.29 | 1 | 10/09/08 15:55 | 10/10/08 14:45 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.5 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 4-4 Lab ID: 409835024 Collected: 09/30/08 13:45 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1120 mg/kg | | 5.2 | 0.31 | 1 | 10/09/08 15:55 | 10/10/08 14:57 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.7 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 4-5 Lab ID: 409835025 Collected: 09/30/08 13:50 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 538 mg/kg | | 5.0 | 0.30 | 1 | 10/09/08 15:55 | 10/10/08 15:01 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.2 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 1-1 Lab ID: 409835026 Collected: 09/30/08 11:30 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 588 mg/kg | | 4.0 | 0.23 | 1 | 10/09/08 15:55 | 10/10/08 15:05 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 74.8 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 1-2 Lab ID: 409835027 Collected: 09/30/08 11:35 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1010 mg/kg | | 4.5 | 0.26 | 1 | 10/09/08 15:55 | 10/10/08 15:09 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:37 | | |

Sample: PLOT 1-3 Lab ID: 409835028 Collected: 09/30/08 11:40 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 516 mg/kg | | 4.0 | 0.24 | 1 | 10/09/08 15:55 | 10/10/08 15:13 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 75.0 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:38 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 409835

Sample: PLOT 1-4 Lab ID: 409835029 Collected: 09/30/08 11:45 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 447 mg/kg | | 4.6 | 0.27 | 1 | 10/09/08 15:55 | 10/10/08 15:17 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.5 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:38 | | |

Sample: PLOT 1-5 Lab ID: 409835030 Collected: 09/30/08 11:50 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 506 mg/kg | | 5.1 | 0.30 | 1 | 10/09/08 15:55 | 10/10/08 15:21 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.4 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:38 | | |

Sample: PLOT 2-1 Lab ID: 409835031 Collected: 09/30/08 12:00 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 375 mg/kg | | 4.7 | 0.28 | 1 | 10/09/08 15:55 | 10/10/08 15:25 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.9 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:38 | | |

Sample: PLOT 2-2 Lab ID: 409835032 Collected: 09/30/08 12:05 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 969 mg/kg | | 4.7 | 0.28 | 1 | 10/09/08 15:55 | 10/10/08 15:29 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.6 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:34 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

Sample: PLOT 2-3 Lab ID: 409835033 Collected: 09/30/08 12:10 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 891 mg/kg | | 4.9 | 0.29 | 1 | 10/09/08 15:55 | 10/10/08 15:33 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.8 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:34 | | |

Sample: PLOT 2-4 Lab ID: 409835034 Collected: 09/30/08 12:15 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 738 mg/kg | | 5.1 | 0.30 | 1 | 10/09/08 15:55 | 10/10/08 17:57 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.3 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:34 | | |

Sample: PLOT 2-5 Lab ID: 409835035 Collected: 09/30/08 12:20 Received: 10/03/08 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 642 mg/kg | | 4.8 | 0.29 | 1 | 10/09/08 15:55 | 10/10/08 18:01 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.4 % | | 0.10 | 0.10 | 1 | | 10/06/08 09:34 | | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

QC Batch: PMST/1898 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 409835001, 409835002, 409835003, 409835004, 409835005, 409835006, 409835007, 409835008, 409835009,
409835010, 409835011

SAMPLE DUPLICATE: 85099

| Parameter | Units | 409790022 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 5.7 | 3.9 | 37 | 10 | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 409835

| | | | |
|--|---------------|-----------------------|-----------------------------|
| QC Batch: | PMST/1899 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: 409835012, 409835013, 409835014, 409835015, 409835016, 409835017, 409835018, 409835019, 409835020, 409835021, 409835022, 409835023, 409835024, 409835025, 409835026, 409835027, 409835028, 409835029, 409835030, 409835031 | | | |

SAMPLE DUPLICATE: 85100

| Parameter | Units | 409835012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 77.6 | 76.7 | 1 | 10 | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

QC Batch: PMST/1900 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 409835032, 409835033, 409835034, 409835035

SAMPLE DUPLICATE: 85101

| Parameter | Units | 409835032 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|---------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 78.6 | 77.9 | .9 | 10 | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

| | | | |
|-------------------------|---|-----------------------|----------|
| QC Batch: | MPRP/1816 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 409835001, 409835002, 409835003, 409835004, 409835005, 409835006, 409835007, 409835008, 409835009, 409835010, 409835011, 409835012, 409835013, 409835014 | | |

| METHOD BLANK: 86123 | Matrix: Solid | | | | |
|-------------------------|---|--------------|-----------------|----------------|------------|
| Associated Lab Samples: | 409835001, 409835002, 409835003, 409835004, 409835005, 409835006, 409835007, 409835008, 409835009, 409835010, 409835011, 409835012, 409835013, 409835014 | | | | |
| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
| Arsenic | mg/kg | <0.059 | 1.0 | 10/08/08 16:32 | |

LABORATORY CONTROL SAMPLE: 86124

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 24.5 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 86125 86126

| Parameter | Units | 409631001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|------|
| Arsenic | mg/kg | 6.6 | 25.5 | 25.5 | 29.5 | 32.4 | 90 | 101 | 75-125 | 9 | 20 | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

| | |
|-----------------------------------|--------------------------------|
| QC Batch: MPRP/1823 | Analysis Method: EPA 6010 |
| QC Batch Method: EPA 3050 | Analysis Description: 6010 MET |
| Associated Lab Samples: 409835015 | |

| | |
|-----------------------------------|---------------|
| METHOD BLANK: 86883 | Matrix: Solid |
| Associated Lab Samples: 409835015 | |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | 10/10/08 10:38 | |

LABORATORY CONTROL SAMPLE: 86884

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 24.0 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 86885 86886

| Parameter | Units | 409734001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Arsenic | mg/kg | 8.0 | 29.8 | 29.7 | 35.3 | 33.5 | 91 | 86 | 75-125 | 5 | 20 | |

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

| | | | |
|-------------------------|--|-----------------------|----------|
| QC Batch: | MPRP/1826 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 409835016, 409835017, 409835018, 409835019, 409835020, 409835021, 409835022, 409835023, 409835024, 409835025, 409835026, 409835027, 409835028, 409835029, 409835030, 409835031, 409835032, 409835033, 409835034, 409835035 | | |

METHOD BLANK: 87303 Matrix: Solid

Associated Lab Samples: 409835016, 409835017, 409835018, 409835019, 409835020, 409835021, 409835022, 409835023, 409835024, 409835025, 409835026, 409835027, 409835028, 409835029, 409835030, 409835031, 409835032, 409835033, 409835034, 409835035

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.059 | 1.0 | 10/10/08 13:54 | |

LABORATORY CONTROL SAMPLE: 87304

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 25 | 23.6 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87305 87306

| Parameter | Units | 409835016 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|------|
| Arsenic | mg/kg | 864 | 126 | 126 | 1210 | 1210 | 273 | 271 | 75-125 | .2 | 20 | P6 |

QUALIFIERS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 409835

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Sample Condition Upon Receipt

PaceAnalytical

Client Name: WMI Project # _____

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature NOI

Biological Tissue Is Frozen: Yes No

Temp should be above freezing to 6°C

Comments: _____

Date and Initials of person examining contents: 10/3/08

| | | |
|--|--|---|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>S</u> | |
| All containers needing preservation have been checked. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input type="checkbox"/> No | Initial when completed Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DH

Date: 10/3/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C-003-REV.3 (11Sep2005)

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CHAIN OF CUSTODY RECORD

ID 063577



744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

Project No. 720109 Project/Client: WDNR Keweenaw 9/30/89

Project Manager/Contact Person:

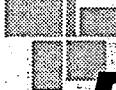
Dick Fish

| Lab No. | Yr. 98 | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Analyses Requested | | | | | | | Comments: |
|---------|-----------|------|------|-------------------|-------------------------------|--------|--------------------|------------------|---|---|---|---|---|------------|
| | | | | | | | Filtered (Yes/No) | Preserved (Code) | A | B | C | D | E | |
| 001 | | 9/30 | 3:25 | Plot 7-1 | 1 | 55 | / | | | | | | | 1-2 places |
| 002 | | | 3:30 | Plot 7-2 | | | | | | | | | | |
| 003 | | | 3:35 | Plot 7-3 | | | | | | | | | | |
| 004 | | | 3:40 | Plot 7-4 | | | | | | | | | | |
| 005 | / | | 3:45 | Plot 7-5 | | V | V | V | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

409835

| | | | | | | |
|---|-------------------------------------|--|--------------------------------|---------------------------------------|---|----------------------------------|
| SAMPLER Relinquished by (Sig.) <i>D. Fennell</i> | Date/Time 10/2/98 7:30AM | Received by (Sig.) <i>D. Fennell</i> | Date/Time 10/2/98 7:30AM | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) <input checked="" type="radio"/> Normal | Rush <input type="checkbox"/> |
| Relinquished by (Sig.) <i>D. Fennell</i> | Date/Time 10/2/98 12:00 | Received by (Sig.) <i>Wallace</i> | Date/Time | <input type="checkbox"/> Flammable | Report Due | |
| Relinquished by (Sig.) <i>Wallace</i> | Date/Time 10/2/98 3:55 | Received by (Sig.) <i>D. W. Wallace</i> | Date/Time 10/2/98 3:55 | <input type="checkbox"/> Corrosive | (For Lab Use Only) | |
| Custody Seal: Present/Absent <i>W</i> | Intact/Not Intact <i>Present</i> | Seal #'s | | <input type="checkbox"/> Highly Toxic | Receipt Temp | Receipt pH (Wet/Metals) |
| | | | | <input type="checkbox"/> Other (list) | Temp Blank Y N | |



CHAIN OF CUSTODY RECORD

No 063576

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

RMT

Project No. 7201:09 Project/Client WDNR Keweenaw 9/30/88

Project Manager/Contact Person:

Dick Fish

| Lab No. | Yr. | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX |
|---------|-----|------|------|-------------------|-------------------------------|--------|
| 006 | 88 | 9/30 | 2:00 | Plot 5-1 | 1 | Soil |
| 007 | | | 2:05 | Plot 5-2 | 1 | |
| 008 | | | 2:10 | Plot 5-3 | 1 | |
| 009 | | | 2:15 | Plot 5-4 | 1 | |
| 010 | | | 2:20 | Plot 5-5 | 1 | |
| 011 | | | 3:00 | Plot 6-1 | 1 | |
| 012 | | | 3:05 | Plot 6-2 | 1 | |
| 013 | | | 3:10 | Plot 6-3 | 1 | |
| 014 | | | 3:15 | Plot 6-4 | 1 | |
| 015 | | | 3:20 | Plot 6-5 | 1 | |

SPECIAL INSTRUCTIONS

4M9835

| | | | | | | |
|---|---------------------------------|------------------------|------------------------------|---|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) | Date/Time 10/2/88 7:30 AM | Received by (Sig.) | Date/Time 10/2/88 0946 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) | Date/Time 10/2/88 1700 | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input checked="" type="checkbox"/> Other (list) | Report Due _____ | (For Lab Use Only) |
| Relinquished by (Sig.) | Date/Time 10/3/88 8:55 | Received by (Sig.) | Date/Time 10/3/88 8:55 | | Receipt Temp: Temp Blank Y N | Receipt pH (Wet/Metals) |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | | |

F-268 (R6/95)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

RMT**CHAIN OF CUSTODY RECORD**

No 063575

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|---|------------------------|
| Project No. | Project/Client: |
| 7201-09 | WIDNR Keweenaw 9-30-08 |
| Project Manager/Contact Person: <i>DICK FISH</i> | |

| Lab No. | Yr. Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Filtered (Yes/No) | N | Comments: |
|---------|-------------|-------|-------------------|-------------------------------|--------|-------------------|---|-----------|
| | | | | | | Preserved (Code) | A | |
| 010 | 9/30 | 12:45 | P10+ 3-1 | 1 | S:1 | | | 1-21-1100 |
| 011 | | 12:50 | P10+ 3-2 | | | | | |
| 012 | | 2:55 | P10+ 3-3 | | | | | |
| 013 | | 2:59 | P10+ 3-4 | | | | | |
| 014 | | 1:05 | P10+ 3-5 | | | | | |
| 015 | | 1:30 | P10+ 4-1 | | | | | |
| 016 | | 1:35 | P10+ 4-2 | | | | | |
| 017 | | 1:40 | P10+ 4-3 | | | | | |
| 018 | | 1:45 | P10+ 4-4 | | | | | |
| 019 | | 1:50 | P10+ 4-5 | ✓ | ✓ | | | |

Analyses Requested
[372] A

SPECIAL INSTRUCTIONS

409835

| | | | | | | |
|--|----------------------------------|--|--------------------------------|---------------------------------------|---|----------------------------|
| SAMPLER Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/02/08 7:30 AM | Received by (Sig.) <i>[Signature]</i> | Date/Time 10/02/08 09:40 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) <input checked="" type="radio"/> Normal | Rush |
| Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/02/08 11:00 | Received by (Sig.) <i>[Signature]</i> | Date/Time 10/02/08 | <input type="checkbox"/> Flammable | (For Lab Use Only) | |
| Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/03/08 8:55 | Received by (Sig.) <i>[Signature]</i> | Date/Time 10/03/08 11:15 | <input type="checkbox"/> Corrosive | | |
| Custody Seal: Present/Absent 19 | Intact/Not Intact | Seal #'s | | <input type="checkbox"/> Highly Toxic | Receipt Temp | Receipt pH (Wet/Metals) |
| | | | | <input type="checkbox"/> Other (list) | Temp Blank | Y N |



CHAIN OF CUSTODY RECORD

NO. 063574

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| Project No. | Project/Client: | Total Number Of Containers | MATRIX | Comments: |
|-------------|-----------------------|----------------------------|-------------------|-----------|
| 7221.09 | WDNR Keweenaw 9-37-08 | | | |
| Dick Fish | | | | |
| Lab No. | Yr Date | Time | Sample Station ID | |
| 026 | 9/30 | 11:30 | P12+ 1-1 | 1 551 X |
| 027 | | 11:35 | P12+ 1-2 | 1 |
| 028 | | 11:40 | P12+ 1-3 | 1 |
| 029 | | 11:45 | P12+ 1-4 | 1 |
| 030 | | 11:50 | P12+ 1-5 | 1 |
| 031 | 1 | 12:00 | P12+ 2-1 | 1 |
| 032 | 1 | 12:05 | P12+ 2-2 | 1 |
| 033 | 1 | 12:10 | P12+ 2-3 | 1 |
| 034 | 1 | 12:15 | P12+ 2-4 | 1 |
| 035 | 1 | 12:20 | P12+ 2-5 | 1 V V V |

SPECIAL INSTRUCTIONS

| | | | | | | |
|--|----------------------------------|--|-------------------------------|------------------------------------|------------------------------------|----------------------------|
| SAMPLER Relinquished by (Sig.) <i>Theresa</i> | Date/Time 10/22/08 7:30 AM | Received by (Sig.) <i>D. French</i> | Date/Time 10/22/08 0940 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. French</i> | Date/Time 10/22/08 1700 | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable | (For Lab Use Only) | |
| Relinquished by (Sig.) <i>W. Miller</i> | Date/Time 10/26/08 1:51 | Received by (Sig.) <i>S. Miller</i> | Date/Time 10/26/08 1:51 | <input type="checkbox"/> Corrosive | Receipt Temp. Temp Blank Y N | Receipt pH (Wet/Metals) |
| Custody Seal: Present/Absent | | Intact/Not Intact | | Seal #'s | | |

November 12, 2008

Dick Fish
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Dear Dick Fish:

Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Marge Allen-Trunkner for T. Noltemeyer
Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------------|--------|----------------|----------------|
| 4010895001 | PLOT 1-1 | Solid | 10/28/08 10:10 | 10/30/08 09:00 |
| 4010895002 | PLOT 1-2 | Solid | 10/28/08 10:15 | 10/30/08 09:00 |
| 4010895003 | PLOT 1-3 | Solid | 10/28/08 10:20 | 10/30/08 09:00 |
| 4010895004 | PLOT 1-4 | Solid | 10/28/08 10:25 | 10/30/08 09:00 |
| 4010895005 | PLOT 1-5 | Solid | 10/28/08 10:30 | 10/30/08 09:00 |
| 4010895006 | PLOT 2-1 | Solid | 10/28/08 11:20 | 10/30/08 09:00 |
| 4010895007 | PLOT 2-2 | Solid | 10/28/08 11:25 | 10/30/08 09:00 |
| 4010895008 | PLOT 2-3 | Solid | 10/28/08 11:30 | 10/30/08 09:00 |
| 4010895009 | PLOT 2-4 | Solid | 10/28/08 11:35 | 10/30/08 09:00 |
| 4010895010 | PLOT 2-5 | Solid | 10/28/08 11:40 | 10/30/08 09:00 |
| 4010895011 | PLOT 3-1 | Solid | 10/28/08 11:45 | 10/30/08 09:00 |
| 4010895012 | PLOT 3-2 | Solid | 10/28/08 11:50 | 10/30/08 09:00 |
| 4010895013 | PLOT 3-3 | Solid | 10/28/08 11:55 | 10/30/08 09:00 |
| 4010895014 | PLOT 3-4 | Solid | 10/28/08 12:00 | 10/30/08 09:00 |
| 4010895015 | PLOT 3-5 | Solid | 10/28/08 12:05 | 10/30/08 09:00 |
| 4010895016 | PLOT 4-1 | Solid | 10/28/08 12:10 | 10/30/08 09:00 |
| 4010895017 | PLOT 4-2 | Solid | 10/28/08 12:15 | 10/30/08 09:00 |
| 4010895018 | PLOT 4-3 | Solid | 10/28/08 12:20 | 10/30/08 09:00 |
| 4010895019 | PLOT 4-4 | Solid | 10/28/08 12:25 | 10/30/08 09:00 |
| 4010895020 | PLOT 4-5 | Solid | 10/28/08 12:30 | 10/30/08 09:00 |
| 4010895021 | PLOT 5-1 | Solid | 10/28/08 12:35 | 10/30/08 09:00 |
| 4010895022 | PLOT 5-2 | Solid | 10/28/08 12:40 | 10/30/08 09:00 |
| 4010895023 | PLOT 5-3 | Solid | 10/28/08 12:45 | 10/30/08 09:00 |
| 4010895024 | PLOT 5-4 | Solid | 10/28/08 12:50 | 10/30/08 09:00 |
| 4010895025 | PLOT 5-5 | Solid | 10/28/08 12:55 | 10/30/08 09:00 |
| 4010895026 | PLOT 6-1 | Solid | 10/28/08 10:30 | 10/30/08 09:00 |
| 4010895027 | PLOT 6-2 | Solid | 10/28/08 10:35 | 10/30/08 09:00 |
| 4010895028 | PLOT 6-3 | Solid | 10/28/08 10:40 | 10/30/08 09:00 |
| 4010895029 | PLOT 6-4 | Solid | 10/28/08 10:45 | 10/30/08 09:00 |
| 4010895030 | PLOT 6-5 | Solid | 10/28/08 10:50 | 10/30/08 09:00 |
| 4010895031 | PLOT 7-1 | Solid | 10/28/08 10:45 | 10/30/08 09:00 |
| 4010895032 | PLOT 7-2 | Solid | 10/28/08 10:50 | 10/30/08 09:00 |
| 4010895033 | PLOT 7-3 | Solid | 10/28/08 10:55 | 10/30/08 09:00 |
| 4010895034 | PLOT 7-4 | Solid | 10/28/08 11:00 | 10/30/08 09:00 |
| 4010895035 | PLOT 7-5 | Solid | 10/28/08 11:05 | 10/30/08 09:00 |
| 4010895036 | TP2 UNDERPAIL 1 | Solid | 10/28/08 12:00 | 10/30/08 09:00 |
| 4010895037 | TP2 UNDERPAIL 2 | Solid | 10/28/08 12:00 | 10/30/08 09:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------------|--------|----------------|----------------|
| 4010895038 | TP4 UNDERPAIL 1 | Solid | 10/28/08 12:00 | 10/30/08 09:00 |
| 4010895039 | TP4 UNDERPAIL 2 | Solid | 10/28/08 12:00 | 10/30/08 09:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|---------------------------|-----------|-------------------|
| 4010895001 | PLOT 1-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895002 | PLOT 1-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895003 | PLOT 1-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895004 | PLOT 1-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895005 | PLOT 1-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895006 | PLOT 2-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895007 | PLOT 2-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895008 | PLOT 2-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895009 | PLOT 2-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895010 | PLOT 2-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895011 | PLOT 3-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895012 | PLOT 3-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895013 | PLOT 3-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895014 | PLOT 3-4 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895015 | PLOT 3-5 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895016 | PLOT 4-1 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895017 | PLOT 4-2 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895018 | PLOT 4-3 | ASTM D2974-87 EPA 6010 | AG DLB | 1 1 |
| 4010895019 | PLOT 4-4 | ASTM D2974-87 | AG | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------------|---------------|----------|-------------------|
| | | EPA 6010 | DLB | 1 |
| 4010895020 | PLOT 4-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895021 | PLOT 5-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895022 | PLOT 5-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895023 | PLOT 5-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895024 | PLOT 5-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895025 | PLOT 5-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895026 | PLOT 6-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895027 | PLOT 6-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895028 | PLOT 6-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895029 | PLOT 6-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895030 | PLOT 6-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895031 | PLOT 7-1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895032 | PLOT 7-2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895033 | PLOT 7-3 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895034 | PLOT 7-4 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895035 | PLOT 7-5 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895036 | TP2 UNDERPAIL 1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895037 | TP2 UNDERPAIL 2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------------|---------------|----------|-------------------|
| 4010895038 | TP4 UNDERPAIL 1 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |
| 4010895039 | TP4 UNDERPAIL 2 | ASTM D2974-87 | AG | 1 |
| | | EPA 6010 | DLB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE

Pace Project No.: 4010895

Sample: PLOT 1-1 Lab ID: 4010895001 Collected: 10/28/08 10:10 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 406 mg/kg | | 4.5 | 0.27 | 1 | 11/03/08 11:52 | 11/03/08 21:16 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:48 | | |

Sample: PLOT 1-2 Lab ID: 4010895002 Collected: 10/28/08 10:15 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1050 mg/kg | | 5.2 | 0.31 | 1 | 11/03/08 11:52 | 11/03/08 21:28 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 1-3 Lab ID: 4010895003 Collected: 10/28/08 10:20 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 415 mg/kg | | 4.4 | 0.26 | 1 | 11/03/08 11:52 | 11/03/08 21:32 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.3 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 1-4 Lab ID: 4010895004 Collected: 10/28/08 10:25 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 529 mg/kg | | 4.6 | 0.27 | 1 | 11/03/08 11:52 | 11/03/08 21:36 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.2 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: PLOT 1-5 Lab ID: 4010895005 Collected: 10/28/08 10:30 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 646 mg/kg | | 5.0 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 21:40 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.2 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 2-1 Lab ID: 4010895006 Collected: 10/28/08 11:20 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 736 mg/kg | | 5.1 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 21:44 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 2-2 Lab ID: 4010895007 Collected: 10/28/08 11:25 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 625 mg/kg | | 4.7 | 0.28 | 1 | 11/03/08 11:52 | 11/03/08 21:48 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.7 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 2-3 Lab ID: 4010895008 Collected: 10/28/08 11:30 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 921 mg/kg | | 4.9 | 0.29 | 1 | 11/03/08 11:52 | 11/03/08 21:52 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: PLOT 2-4 Lab ID: 4010895009 Collected: 10/28/08 11:35 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 745 mg/kg | | 5.1 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 22:04 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.3 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 2-5 Lab ID: 4010895010 Collected: 10/28/08 11:40 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 700 mg/kg | | 5.1 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 22:08 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:49 | | |

Sample: PLOT 3-1 Lab ID: 4010895011 Collected: 10/28/08 11:45 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 740 mg/kg | | 5.2 | 0.31 | 1 | 11/03/08 11:52 | 11/03/08 22:12 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.8 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:51 | | |

Sample: PLOT 3-2 Lab ID: 4010895012 Collected: 10/28/08 11:50 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 519 mg/kg | | 5.1 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 22:16 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.4 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:51 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

Sample: PLOT 3-3 Lab ID: 4010895013 Collected: 10/28/08 11:55 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 730 mg/kg | | 5.2 | 0.31 | 1 | 11/03/08 11:52 | 11/03/08 22:20 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:51 | | |

Sample: PLOT 3-4 Lab ID: 4010895014 Collected: 10/28/08 12:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 876 mg/kg | | 4.9 | 0.29 | 1 | 11/03/08 11:52 | 11/03/08 22:24 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.8 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 3-5 Lab ID: 4010895015 Collected: 10/28/08 12:05 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 505 mg/kg | | 4.4 | 0.26 | 1 | 11/03/08 11:52 | 11/03/08 22:28 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 4-1 Lab ID: 4010895016 Collected: 10/28/08 12:10 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 507 mg/kg | | 5.0 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 22:32 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.1 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE

Pace Project No.: 4010895

Sample: PLOT 4-2 Lab ID: 4010895017 Collected: 10/28/08 12:15 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1410 mg/kg | | 5.2 | 0.31 | 1 | 11/03/08 11:52 | 11/03/08 22:36 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.7 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 4-3 Lab ID: 4010895018 Collected: 10/28/08 12:20 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 366 mg/kg | | 5.5 | 0.33 | 1 | 11/03/08 11:52 | 11/03/08 22:40 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 4-4 Lab ID: 4010895019 Collected: 10/28/08 12:25 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 554 mg/kg | | 5.0 | 0.30 | 1 | 11/03/08 11:52 | 11/03/08 22:52 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.0 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 4-5 Lab ID: 4010895020 Collected: 10/28/08 12:30 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 894 mg/kg | | 5.4 | 0.32 | 1 | 11/03/08 11:52 | 11/03/08 22:56 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.4 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: PLOT 5-1 Lab ID: 4010895021 Collected: 10/28/08 12:35 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 791 mg/kg | | 5.2 | 0.31 | 1 | 11/03/00 14:30 | 11/06/08 17:11 | 7440-38-2 | P6 |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.8 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 5-2 Lab ID: 4010895022 Collected: 10/28/08 12:40 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 830 mg/kg | | 5.0 | 0.30 | 1 | 11/03/00 14:30 | 11/06/08 17:23 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.0 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 5-3 Lab ID: 4010895023 Collected: 10/28/08 12:45 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 635 mg/kg | | 5.2 | 0.31 | 1 | 11/03/00 14:30 | 11/06/08 17:27 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:52 | | |

Sample: PLOT 5-4 Lab ID: 4010895024 Collected: 10/28/08 12:50 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1120 mg/kg | | 4.8 | 0.28 | 1 | 11/03/00 14:30 | 11/06/08 17:31 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.2 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE

Pace Project No.: 4010895

Sample: PLOT 5-5 Lab ID: 4010895025 Collected: 10/28/08 12:55 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 770 mg/kg | | 5.2 | 0.31 | 1 | 11/03/00 14:30 | 11/06/08 17:35 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

Sample: PLOT 6-1 Lab ID: 4010895026 Collected: 10/28/08 10:30 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 574 mg/kg | | 4.6 | 0.27 | 1 | 11/03/00 14:30 | 11/06/08 17:39 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.4 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

Sample: PLOT 6-2 Lab ID: 4010895027 Collected: 10/28/08 10:35 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 904 mg/kg | | 5.8 | 0.34 | 1 | 11/03/00 14:30 | 11/06/08 17:43 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 82.8 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

Sample: PLOT 6-3 Lab ID: 4010895028 Collected: 10/28/08 10:40 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 1320 mg/kg | | 7.4 | 0.44 | 1 | 11/03/00 14:30 | 11/06/08 17:47 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 86.5 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: PLOT 6-4 Lab ID: 4010895029 Collected: 10/28/08 10:45 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 930 mg/kg | | 4.6 | 0.27 | 1 | 11/03/00 14:30 | 11/06/08 17:58 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.4 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

Sample: PLOT 6-5 Lab ID: 4010895030 Collected: 10/28/08 10:50 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 636 mg/kg | | 4.2 | 0.25 | 1 | 11/03/00 14:30 | 11/06/08 18:02 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.1 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:53 | | |

Sample: PLOT 7-1 Lab ID: 4010895031 Collected: 10/28/08 10:45 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 331 mg/kg | | 4.8 | 0.28 | 1 | 11/03/00 14:30 | 11/06/08 18:06 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 79.0 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: PLOT 7-2 Lab ID: 4010895032 Collected: 10/28/08 10:50 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 693 mg/kg | | 4.3 | 0.25 | 1 | 11/03/00 14:30 | 11/06/08 18:10 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 76.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

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ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: PLOT 7-3 Lab ID: 4010895033 Collected: 10/28/08 10:55 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 360 mg/kg | | 5.1 | 0.30 | 1 | 11/03/00 14:30 | 11/06/08 18:15 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.3 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: PLOT 7-4 Lab ID: 4010895034 Collected: 10/28/08 11:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 769 mg/kg | | 4.4 | 0.26 | 1 | 11/03/00 14:30 | 11/06/08 18:19 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.5 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: PLOT 7-5 Lab ID: 4010895035 Collected: 10/28/08 11:05 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 880 mg/kg | | 4.6 | 0.27 | 1 | 11/03/00 14:30 | 11/06/08 18:23 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 78.2 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: TP2 UNDERPAIL 1 Lab ID: 4010895036 Collected: 10/28/08 12:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 547 mg/kg | | 4.4 | 0.26 | 1 | 11/03/00 14:30 | 11/06/08 18:27 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 77.4 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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100

ANALYTICAL RESULTS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

Sample: TP2 UNDERPAIL 2 Lab ID: 4010895037 Collected: 10/28/08 12:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 815 mg/kg | | 4.1 | 0.24 | 1 | 11/03/00 14:30 | 11/06/08 18:31 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 75.6 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: TP4 UNDERPAIL 1 Lab ID: 4010895038 Collected: 10/28/08 12:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 642 mg/kg | | 5.3 | 0.31 | 1 | 11/03/00 14:30 | 11/06/08 18:35 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 81.2 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:54 | | |

Sample: TP4 UNDERPAIL 2 Lab ID: 4010895039 Collected: 10/28/08 12:00 Received: 10/30/08 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------|--|-------|------|------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | |
| Arsenic | 773 mg/kg | | 5.2 | 0.31 | 1 | 11/03/00 14:30 | 11/06/08 18:46 | 7440-38-2 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 80.9 % | | 0.10 | 0.10 | 1 | | 10/31/08 07:55 | | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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(b)

QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE

Pace Project No.: 4010895

| | | | |
|-------------------------|---|-----------------------|-----------------------------|
| QC Batch: | PMST/1991 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 4010895001, 4010895002, 4010895003, 4010895004, 4010895005, 4010895006, 4010895007, 4010895008, 4010895009, 4010895010 | | |

SAMPLE DUPLICATE: 95959

| Parameter | Units | 4010855002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 14.2 | 14.7 | 4 | 10 | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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102

QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/1992 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 4010895011, 4010895012, 4010895013, 4010895014, 4010895015, 4010895016, 4010895017, 4010895018, 4010895019, 4010895020, 4010895021, 4010895022, 4010895023, 4010895024, 4010895025, 4010895026, 4010895027, 4010895028, 4010895029, 4010895030 | | |

SAMPLE DUPLICATE: 95960

| Parameter | Units | 4010895011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 80.8 | 81.0 | .3 | 10 | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

| | | | |
|-------------------------|---|-----------------------|-----------------------------|
| QC Batch: | PMST/1993 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 4010895031, 4010895032, 4010895033, 4010895034, 4010895035, 4010895036, 4010895037, 4010895038, 4010895039 | | |

SAMPLE DUPLICATE: 95961

| Parameter | Units | 4010895031 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 79.0 | 78.6 | .5 | 10 | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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104

QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
 Pace Project No.: 4010895

| | | | |
|-------------------------|--|-----------------------|----------|
| QC Batch: | MPRP/1936 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 4010895001, 4010895002, 4010895003, 4010895004, 4010895005, 4010895006, 4010895007, 4010895008, 4010895009, 4010895010, 4010895011, 4010895012, 4010895013, 4010895014, 4010895015, 4010895016, 4010895017, 4010895018, 4010895019, 4010895020 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 96728 | Matrix: | Solid |
| Associated Lab Samples: | 4010895001, 4010895002, 4010895003, 4010895004, 4010895005, 4010895006, 4010895007, 4010895008, 4010895009, 4010895010, 4010895011, 4010895012, 4010895013, 4010895014, 4010895015, 4010895016, 4010895017, 4010895018, 4010895019, 4010895020 | | |

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|-----------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| Arsenic | mg/kg | <0.059 | 1.0 | 11/03/08 21:00 | |

LABORATORY CONTROL SAMPLE: 96729

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|-----------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Arsenic | mg/kg | 25 | 25.7 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96730 96731

| Parameter | Units | 4010895001 | MS | MSD | MS | % Rec | MSD | % Rec | % Rec | Max | RPD | RPD | Qual |
|-----------|-------|------------|-------|-------|-----|-------|-----|-------|--------|-----|-----|-----|------|
| | | Result | Spike | Spike | | | | | | | | | |
| Arsenic | mg/kg | 406 | 113 | 113 | 522 | 533 | 102 | 113 | 75-125 | 2 | 20 | | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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106

QUALITY CONTROL DATA

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

| | | | |
|-------------------------|--|-----------------------|----------|
| QC Batch: | MPRP/1937 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 4010895021, 4010895022, 4010895023, 4010895024, 4010895025, 4010895026, 4010895027, 4010895028, 4010895029, 4010895030, 4010895031, 4010895032, 4010895033, 4010895034, 4010895035, 4010895036, 4010895037, 4010895038, 4010895039 | | |

METHOD BLANK: 96770 Matrix: Solid

Associated Lab Samples: 4010895021, 4010895022, 4010895023, 4010895024, 4010895025, 4010895026, 4010895027, 4010895028,
4010895029, 4010895030, 4010895031, 4010895032, 4010895033, 4010895034, 4010895035, 4010895036,
4010895037, 4010895038, 4010895039

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|-----------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| Arsenic | mg/kg | <0.059 | 1.0 | 11/06/08 16:56 | |

LABORATORY CONTROL SAMPLE: 96771

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|-----------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Arsenic | mg/kg | 25 | 26.0 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96772 96773

| Parameter | Units | 4010895021 | MS | MSD | MS | % Rec | MSD | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|------|-------|-----|-------|--------|--------|-----|---------|------|
| | | Result | Spike Conc. | Spike Conc. | | | | | | | | | |
| Arsenic | mg/kg | 791 | 130 | 130 | 1010 | 905 | 167 | 88 | 75-125 | 11 | 20 | P6 | |

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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106

QUALIFIERS

Project: 7201.09 WDNR KEWAUNEE
Pace Project No.: 4010895

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Date: 11/12/2008 11:53 AM

REPORT OF LABORATORY ANALYSIS

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107

Sample Condition Upon Receipt

Pace Analytical

Client Name: RWT Project # 4010895Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

| | |
|------------|------------------|
| Optional | Project Due Date |
| Proj. Name | _____ |

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc bagsThermometer Used NAType of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature ROI

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/30/08

Temp should be above freezing to 6°C

Comments: _____

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>S</u> | | |
| All containers needing preservation have been checked. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No, <input type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution:

Field Data Required?

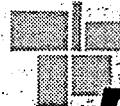
Y / N

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

_____Project Manager Review: DMNDate: 10/30/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)



RML

CHAIN OF CUSTODY RECORD

Nº 063581

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|---------------------------------|----------------------|
| Project No. | Project/Client: |
| <u>7221.09</u> | <u>WDNR Keweenaw</u> |
| Project Manager/Contact Person: | |
| <u>Dick Fish</u> | |

| Lab No. | Yr | 08 | Date | Time | Sample Station ID |
|---------|----|------|----------|------|-------------------|
| 101 | | 1926 | 10:10 AM | P107 | 1-1 001 |
| 102 | | | 10:15 | | 1-2 002 |
| 103 | | | 10:20 | | 1-3 003 |
| 104 | | | 10:25 | | 1-4 004 |
| 105 | | | 10:30 | | 1-5 005 |
| 201 | | | 10:11:20 | | 2-1 006 |
| 202 | | | 11:25 | | 2-2 007 |
| 203 | | | 11:30 | | 2-3 008 |
| 204 | | | 11:35 | | 2-4 009 |
| 205 | | V | 11:40 | V | 2-5 010 |

SPECIAL INSTRUCTIONS

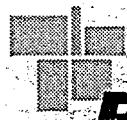
SAMPLER Relinquished by (Sig.) Date/Time Received by (Sig.)
Theresa 10/28/08 3:30 PM *D. Gould* 10/28/08

| | | |
|---|------------|--------------------|
| Relinquished by (Sig.) | Date/Time | Received by (Sig.) |
|  | 10/29/1700 | |

| | | |
|------------------------|----------------|--------------------|
| Relinquished by (Sig.) | Date/Time | Received by (Sig.) |
| <i>WATSON</i> | 10/10/01 10:00 | <i>DR. JONES</i> |

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

| | |
|--|--|
| HAZARDS ASSOCIATED WITH SAMPLES <ul style="list-style-type: none"> <input type="checkbox"/> Flammable <input checked="" type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) <hr/> | <p>Turn Around (circle one) Normal Rush</p> <p>Report Due _____</p> <p style="text-align: center;">(For Lab Use Only)</p> <p>Receipt Temp: _____</p> <p>Temp Blank Y N</p> <p>Receipt pH _____ (Wet/Metals)</p> |
|--|--|



CHAIN OF CUSTODY RECORD

ND 063582

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|-------------|-----------------|
| Project No. | Project/Client: |
| 7201.09 | WDNR Keweenaw |

Project Manager/Contact Person:

Dick Fish

| Lab No. | Yr | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX |
|---------|------|---------|------|-------------------|----------------------------|--------|
| 301 | 1928 | 11:55AM | | Plot 3-1 | 01 | |
| 302 | | 11:50 | | 3-2 | 012 | |
| 303 | | 11:55 | | 3-3 | 013 | |
| 304 | | 12:00 | | 3-4 | 011 | |
| 305 | | 12:05 | | 3-5 | 015 | |
| 401 | | 12:10 | | 4-1 | 016 | |
| 402 | | 12:15 | | 4-2 | 011 | |
| 403 | | 12:20 | | 4-3 | 013 | |
| 404 | | 12:25 | | 4-4 | 011 | |
| 405 | V | 12:30 | V | 4-5 | 010 | V V V |

SPECIAL INSTRUCTIONS

Please homogenize samples before analysis

4010895

| | | | | | | |
|------------------------------------|---------------------------------|------------------------|--------------------------------|---|--|------------------------------|
| SAMPLER Relinquished by (Sig.) | Date/Time 10/26/06 5:30pm | Received by (Sig.) | Date/Time 10/26/06 14:15 | HAZARDS ASSOCIATED WITH SAMPLES <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) | Date/Time 10/26/06 17:00 | Received by (Sig.) | Date/Time | | (For Lab Use Only) | |
| Relinquished by (Sig.) | Date/Time 10/26/06 17:00 | Received by (Sig.) | Date/Time 10/26/06 17:00 | | Receipt Temp: Temp Blank <input checked="" type="radio"/> Y | Receipt pH (Wet/Metals) N |
| Custody Seal: Present/Absent | | Intact/Not Intact | | Seal #'s | | |

011

F-268 (R6/95)

WHITE - LABORATORY COPY

YELLOW - REPORT APPENDIX

PINK - SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

No 063583

RMT.

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

Project No. 720139 Project/Client WDNR Keweenaw

Project Manager/Contact Person:

Dick Fish

| Lab No. | Yr. | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Analyses Requested | | | | | | | | | | Comments |
|---------|-----|----------|----------|-------------------|-------------------------------|--------|--------------------|------------------|-------------|--|--|--|--|--|--|---|----------|
| | | | | | | | Filtered (Yes/No) | Preserved (Code) | TO 10/19/95 | | | | | | | | |
| 501 | 928 | 12:35 PM | 12:35 PM | 5-1 | 021 | | | X | | | | | | | | | 121 |
| 502 | | 12:40 | | 5-2 | 022 | | | | | | | | | | | | 1 |
| 503 | | 12:45 | | 5-3 | 023 | | | | | | | | | | | | |
| 504 | | 12:50 | | 5-4 | 024 | | | | | | | | | | | | |
| 505 | | 12:55 | | 5-5 | 025 | | | | | | | | | | | | |
| 601 | | 12:37 AM | | 6-1 | 026 | | | | | | | | | | | | |
| 602 | | 10:35 | | 6-2 | 027 | | | | | | | | | | | | |
| 603 | | 10:40 | | 6-3 | 028 | | | | | | | | | | | | |
| 604 | | 10:45 | | 6-4 | 029 | | | | | | | | | | | | |
| 605 | V | 10:50 | V | 6-5 | 030 | V | V | | | | | | | | | V | |

SPECIAL INSTRUCTIONS

Please homogenize samples

4010895

| | | | | | | | |
|---|---------------------------------|--|--------------------------------|---------------------------------------|--|--|---------------------------------|
| SAMPLER Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/29/95 5:30PM | Received by (Sig.) <i>[Signature]</i> | Date/Time 10/29/95 10:15 | HAZARDS ASSOCIATED WITH SAMPLES | | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/29/95 10:15 | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable | <input type="checkbox"/> Corrosive | Report Due (For Lab Use Only) | |
| Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/30/95 9:00 | Received by (Sig.) | Date/Time 10/30/95 10:00 | <input type="checkbox"/> Highly Toxic | <input type="checkbox"/> Other (list) _____ | Receipt Temp: Temp Blank <input checked="" type="radio"/> Y | Receipt pH (Wet/Metals) N |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | | | |



CHAIN OF CUSTODY RECORD

NO 063584

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

| | |
|---------------------------------|-----------------|
| Project No. | Project/Client: |
| 720109 | WDNR Kenawee |
| Project Manager/Contact Person: | |
| Dick Fish | |

| Lab No. | Yr. | Date | Time | Sample Station ID | Total Number Of Containers | MATRIX | Filtered (Yes/No) | Preserved (Code) | Comments |
|---------|-----|-------|-------|-------------------|----------------------------|--------|--------------------|------------------|----------|
| | | | | | | | Analyses Requested | 10/28/95 | |
| 701 | 98 | 10/28 | 10:45 | Dist 7-1 | 031 | 1 | S | X | 1-2in |
| 702 | | | 10:50 | 7-2 | 02 | 1 | | | |
| 703 | | | 10:55 | 7-3 | 03 | | | | |
| 704 | | | 11:00 | 7-4 | 034 | | | | |
| 705 | | | 11:05 | V 7-5 | 035 | | | | |
| 801 | | | 12:00 | TP 2 Under-pail 1 | 06 | | | | |
| 802 | | | | TP 2 Under-pail 2 | 07 | | | | |
| 803 | | | | TP 4 Under-pail 1 | 08 | | | | |
| 804 | | | | TP 4 Under-pail 2 | 035 | | V | V | |

SPECIAL INSTRUCTIONS Homogenize samples before analysis

4010895

| | | | | | | |
|--|---------------------------------|--|-------------------------------|--|------------------------------------|-----------------------------------|
| SAMPLER Relinquished by (Sig.) <i>[Signature]</i> | Date/Time 10/28/95 5:30pm | Received by (Sig.) <i>[Signature]</i> | Date/Time 10/29/95 6:15 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) Normal | Rush |
| Relinquished by (Sig.) <i>D. Forni</i> | Date/Time 10/29/95 7:00 | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) | Report Due | (For Lab Use Only) |
| Relinquished by (Sig.) <i>NACG</i> | Date/Time 10/30/95 9:00 | Received by (Sig.) | Date/Time 10/30/95 10:00 | | Receipt Temp: Temp Blank | Receipt pH (Wet/Metals) Y N |
| Custody Seal: Present/Absent | Intact/Not Intact | Seal #'s | | | | |



Wisconsin Occupational
Health Laboratory

Mail:
P.O. Box 7996
Madison, WI 53707-7996
Phone: (800) 446-0403

Packages:
2601 Agriculture Dr.
Madison, WI 53718
Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

Analytical Laboratory Report

July 31, 2008

Report ID: 9121968

Company Number: 41

BOB STANFORTH
RMT
PO BOX 8923
MADISON WI 53708-8923

BOB STANFORTH

PROJ # 7201.09

Date Received: 7/18/2008
Date of Analysis: 7/25/2008
Date Reported: 7/31/2008

Analyst: Roger Schultz

ROGER W SCHULTZ, Senior Chemist
rws@mail.slh.wisc.edu

Reviewer: Steve Strel

STEVE STREBEL, Organic Supervisor
ss@mail.slh.wisc.edu

WOHL uses only verified, secured electronic signatures on reports.

These signatures are as valid as original handwritten signatures.

If you have any questions regarding this report please feel free to contact the laboratory via email (as listed above) or via telephone at 800-446-0403



Wisconsin State Laboratory of Hygiene

University of Wisconsin

Analytical Results

| LAB NUMBER | DESCRIPTION | AIR VOLUME |
|------------|-------------|-------------------|
| 1339813 | TUBE | liters |
| TUBE | Arsine | <0.0060 µg/sample |

Displayed values on report have been rounded; however all calculations are performed using raw, unrounded intermediate results. Please contact the laboratory if you have any questions regarding our result calculation or rounding. All samples were received by the laboratory in acceptable condition unless otherwise noted.

< : Less Than. The analyte, if present, is at a level too low to be accurately quantitated by the method used.
The actual amount is less than the reported value.

Analytical Methodology

ARSINE: AsH₃:

Samples are analyzed by WOHL in-house method WM011.2.0, based on NIOSH S229 and NIOSH 6001 for Arsine.

Air samples are collected on charcoal tubes to trap the arsine vapor. The charcoal is transferred to a test tube and desorbed with .01M Nitric acid. The sample is analyzed using Atomic Absorption Stabilized Temperature Platform Graphite Furnace.

Results are expressed as milligrams per cubic meter of air if the air collection volume was provided; otherwise, as micrograms per tube. Results are not blank corrected unless otherwise noted in the comments section of the report.

Limit of Detection: .002 ug/sample

Limit of Quantitation: .006 ug/sample

This value is based upon a total digestion volume of 2 ml.

REPORTING LIMITS:

This table contains the WOHL determined reporting limits for the compounds specified in this report. These numbers are based on the historical statistical data for a particular analyte or are based on WOHL determined values.

| Analyte | Reporting Limit |
|----------------|-----------------|
| Arsine on TUBE | 0.006 µg/sample |

Wisconsin State Laboratory of Hygiene

University of Wisconsin

Analytical Quality Control

Laboratory prepared quality control (QC) samples were analyzed along with the samples included in the analytical report. The analysis results for these QC samples are listed below.

Instrument Used for Analysis: Perkin Elmer AA Spectrophotometer

Laboratory Control Sample: 130669

QC Sample Media: MCEF filter

| <u>Analvte</u> | <u>Target Value</u> | <u>Recovery (%)</u> | <u>Acceptable Recovery (%)</u> | <u>Pass/Fail</u> |
|-----------------------|---------------------|---------------------|--------------------------------|------------------|
| Arsenic and compounds | 1.02 µg/filter | 97.4 | 67 - 133 | PASS |

Laboratory Control Sample: 130670

QC Sample Media: MCEF filter

| <u>Analvte</u> | <u>Target Value</u> | <u>Recovery (%)</u> | <u>Acceptable Recovery (%)</u> | <u>Pass/Fail</u> |
|-----------------------|---------------------|---------------------|--------------------------------|------------------|
| Arsenic and compounds | 1.5 µg/filter | 97.9 | 67 - 133 | PASS |

The acceptable range for an analyte is based on the standard deviation of each analyte, which has been determined from statistical evaluation of the historical performance of the assay. The acceptable range includes up to 3 standard deviations, so a result within 3 standard deviations is considered to have passed the QC requirements. A result outside of the acceptable range is considered to have failed QC and may indicate the direction of possible bias for the samples included in the analytical report. The analytes used for QC determination will not always be the same analytes that appear in the samples for the report, however they are representative of the compounds found in the samples and indicative of overall assay performance.

End of Analytical Report

The results in this report apply only to the samples, specifically listed above, tested at the Wisconsin Occupational Health Laboratory .
This report is not to be reproduced except in full.

July 17, 2008

Steve Strabel
Wisconsin State Lab of Hygiene
2601 Agriculture Drive
Madison, WI 53718

#41

Keweenaw Plot 5

Steve:

1339813

Please run the enclosed tube for arsine gas. 307 mL of gas were passed through the tube. Unfortunately, I have no idea how much arsine may be present (hence the large tube) – it may be below detection or it may be quite a bit.

If you could, please note the project number of 7201.09 on the invoice, and send the invoice to me.

Let me know if there are any questions or problems.

Thanks.

Sincerely

Bob

Bob Stanforth
RMT Inc
744 Heartland Trail
Madison, WI 53717-1934

Tel: 662-5310

8002 81 700
order

Wisconsin State Laboratory of Hygiene

University of Wisconsin

Analytical Laboratory Report

August 08, 2008

Report ID: 9125310

KENT MCCORD
RMT
744 HEARTLAND TRL
MADISON WI 53717

Company Number: 41

PROJ 7201.09**KEWAUNEE MARSH**Date Collected: 7/29/2008
Date Received: 7/31/2008
Date of Analysis: 8/1/2008
Date Reported: 8/8/2008Analyst: Roger Schultz
ROGER W SCHULTZ, Senior Chemist
rws@mail.slh.wisc.eduReviewer: D. Kennedy-Parker
DEWAYNE R KENNEDY-PARKER, Chemist Supervisor
fess@mail.slh.wisc.eduWOHL uses only verified, secured electronic signatures on reports.
These signatures are as valid as original handwritten signatures.
If you have any questions regarding this report please feel free to contact the
laboratory via email (as listed above) or via telephone at 800-446-0403



Wisconsin State Laboratory of Hygiene

University of Wisconsin

Analytical Results

| LAB NUMBER | FIELD NUMBER | DESCRIPTION | AIR VOLUME |
|---|--------------|-------------------|--------------|
| 1341986 | | TUBE | 0.708 liters |
| PLOT#2 | Arsine | 0.0082 µg/sample | 0.012 mg/m³ |
| 1341987 | | TUBE | 0.324 liters |
| PLOT#3 | Arsine | <0.0060 µg/sample | <0.019 mg/m³ |
| 1341988 | | TUBE | 0.223 liters |
| PLOT#4 | Arsine | <0.0060 µg/sample | <0.027 mg/m³ |
| 1341989 | | TUBE | 0.452 liters |
| PLOT#7 | Arsine | 0.0063 µg/sample | 0.014 mg/m³ |
| COMMENTS: Back result reported. Back result greater than front result indicating possible breakthrough and sample loss. | | | |

Displayed values on report have been rounded; however all calculations are performed using raw, unrounded intermediate results. Please contact the laboratory if you have any questions regarding our result calculation or rounding. All samples were received by the laboratory in acceptable condition unless otherwise noted.

< : Less Than. The analyte, if present, is at a level too low to be accurately quantitated by the method used.
The actual amount is less than the reported value.

Analytical Methodology

ARSINE: AsH₃:

Samples are analyzed by WOHL in-house method WM011.2.0, based on NIOSH S229 and NIOSH 6001 for Arsine.

Air samples are collected on charcoal tubes to trap the arsine vapor. The charcoal is transferred to a test tube and desorbed with .01M Nitric acid. The sample is analyzed using Atomic Absorption Stabilized Temperature Platform Graphite Furnace.

Results are expressed as milligrams per cubic meter of air if the air collection volume was provided; otherwise, as micrograms per tube. Results are not blank corrected unless otherwise noted in the comments section of the report.

Reporting Limit: .006 ug/sample
This value is based upon a total digestion volume of 2 ml.

Wisconsin State Laboratory of Hygiene
REPORTING LIMITS:**University of Wisconsin**

This table contains the WOHL determined reporting limits for the compounds specified in this report. These numbers are based on the historical statistical data for a particular analyte or are based on WOHL determined values.

| <u>Analyte</u> | <u>Reporting Limit</u> |
|----------------|------------------------|
| Arsine on TUBE | 0.006 µg/sample |

Analytical Quality Control

Laboratory prepared quality control (QC) samples were analyzed along with the samples included in the analytical report. The analysis results for these QC samples are listed below.

Instrument Used for Analysis: Perkin Elmer AA Spectrophotometer

Laboratory Control Sample: 130671

QC Sample Media: MCEF filter

| <u>Analvte</u> | <u>Target Value</u> | <u>Recovery (%)</u> | <u>Acceptable Recovery (%)</u> | <u>Pass/Fail</u> |
|-----------------------|---------------------|---------------------|--------------------------------|------------------|
| Arsenic and compounds | 1.2 µg/filter | 95.8 | 67 - 133 | PASS |

Laboratory Control Sample: 130672

QC Sample Media: MCEF filter

| <u>Analvte</u> | <u>Target Value</u> | <u>Recovery (%)</u> | <u>Acceptable Recovery (%)</u> | <u>Pass/Fail</u> |
|-----------------------|---------------------|---------------------|--------------------------------|------------------|
| Arsenic and compounds | 1.63 µg/filter | 100.6 | 67 - 133 | PASS |

The acceptable range for an analyte is based on the standard deviation of each analyte, which has been determined from statistical evaluation of the historical performance of the assay. The acceptable range includes up to 3 standard deviations, so a result within 3 standard deviations is considered to have passed the QC requirements. A result outside of the acceptable range is considered to have failed QC and may indicate the direction of possible bias for the samples included in the analytical report. The analytes used for QC determination will not always be the same analytes that appear in the samples for the report, however they are representative of the compounds found in the samples and indicative of overall assay performance.

End of Analytical Report

The results in this report apply only to the samples, specifically listed above, tested at the Wisconsin Occupational Health Laboratory .
This report is not to be reproduced except in full.



CHAIN OF CUSTODY RECORD

Nº 063550

744 Heartland Trail, P.O. Box 8923 • Madison, WI 53708-8923 • Phone (608) 831-4444 • FAX (608) 831-3334

SPECIAL INSTRUCTIONS Please call Kent McCord @ 608 662-5362. Use NIOSH Method 6001. Please bill to LMT project # 7201.09. Please also email results to Kent.McCord@RUTI.UC.

| | | | | | |
|---|-----------|--|-----------------------|---|---|
| SAMPLER Relinquished by (Sig.)  | Date/Time | Received by (Sig.)  | Date/Time 11/17/08 | HAZARDS ASSOCIATED WITH SAMPLES | Turn Around (circle one) <input checked="" type="radio"/> Normal <input type="radio"/> Rush |
| Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time | <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Highly Toxic <input type="checkbox"/> Other (list) <hr/> | Report Due _____ |
| Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time | (For Lab Use Only) | |
| | | | | Receipt Temp: Temp Blank Y N | Receipt pH (Wet/Metals) |
| Custody Seal: Present/Absent Intact/Not Intact Seal #'s | | | | | |

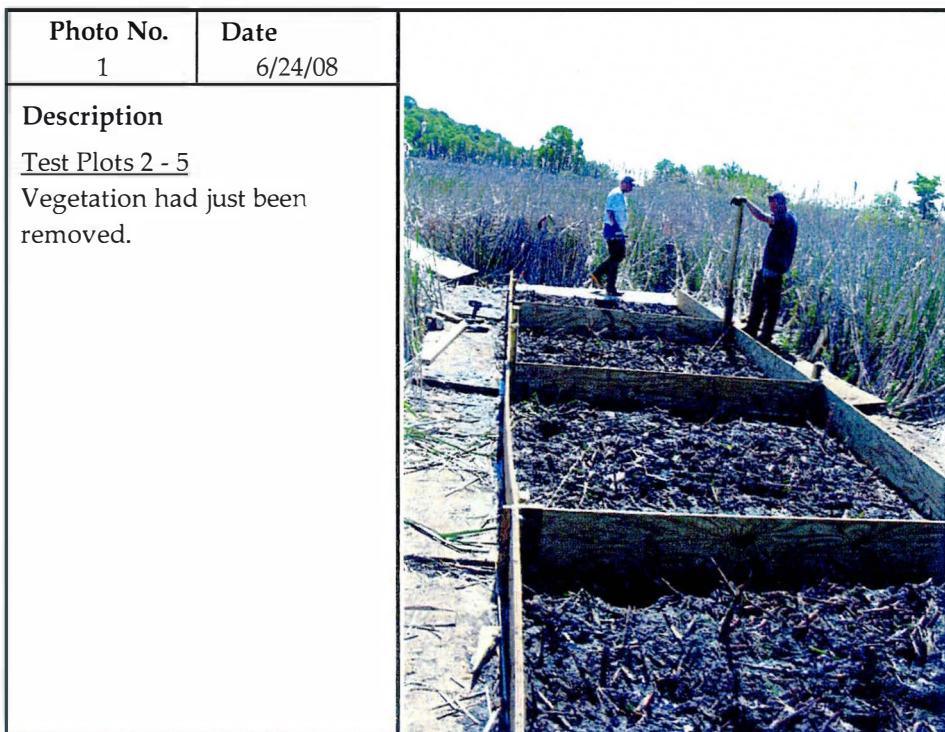
Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Appendix C

Photographic Logs

Photographic Log

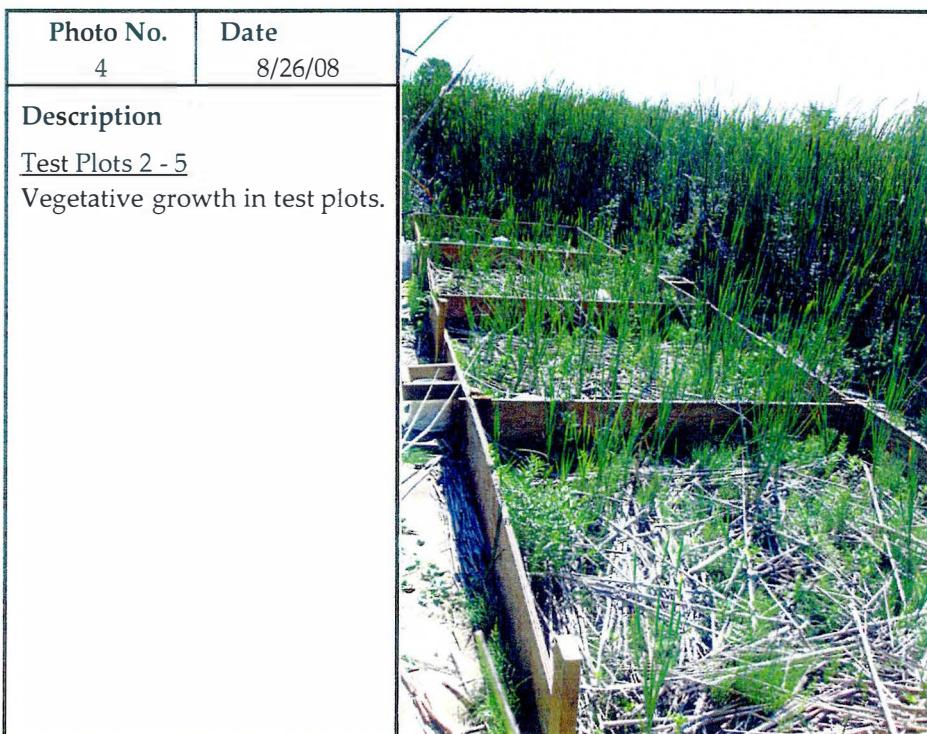
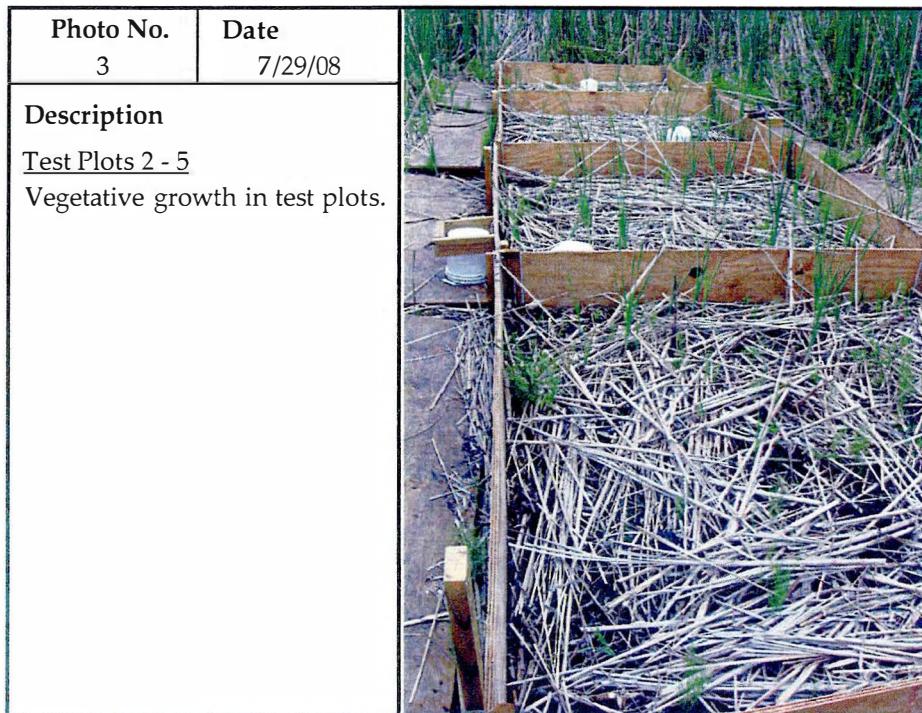
| Mechanical Removal | | |
|---|---------------------|-------------|
| Client Name | Site Location | Project No. |
| Wisconsin Department of Natural Resources | Kewaunee, Wisconsin | 7201.09 |



Photographic Log

Mechanical Removal

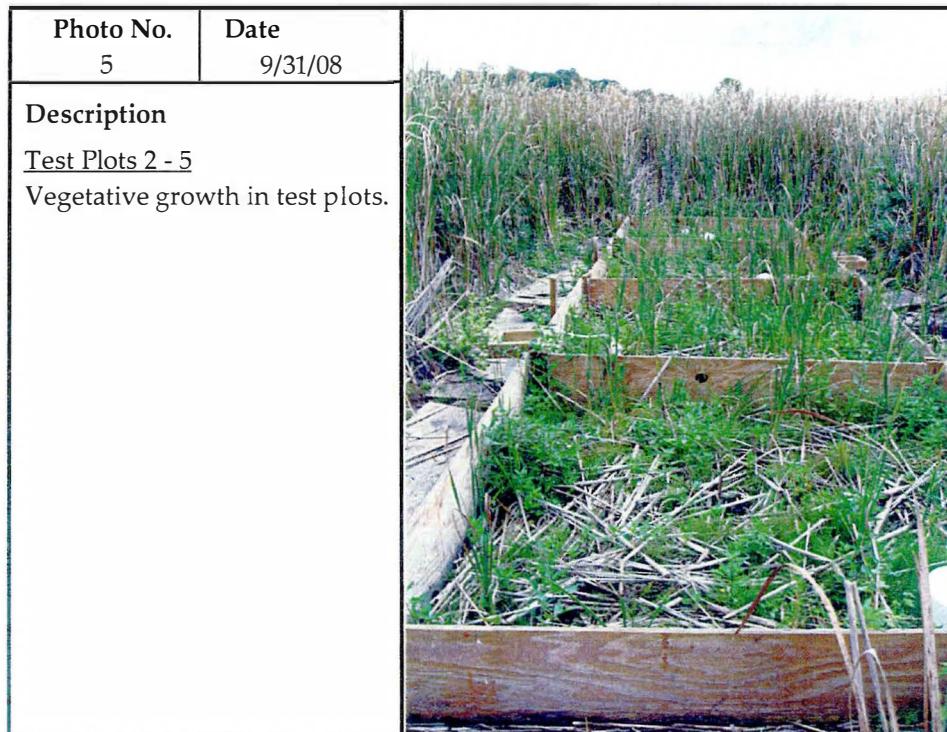
| Client Name | Site Location | Project No. |
|---|---------------------|-------------|
| Wisconsin Department of Natural Resources | Kewaunee, Wisconsin | 7201.09 |



Photographic Log

Mechanical Removal

| Client Name | Site Location | Project No. |
|---|---------------------|-------------|
| Wisconsin Department of Natural Resources | Kewaunee, Wisconsin | 7201.09 |



Photographic Log

| Herbicide Application | | | |
|---|---------------------|--|--|
| Client Name | Site Location | Project No. | |
| Wisconsin Department of Natural Resources | Kewaunee, Wisconsin | 7201.09 | |
| Photo No. | Date | | |
| 1 | 6/24/08 |  A photograph showing a dense stand of cattails in a wetland area. A wooden boardwalk or path is visible in the foreground, partially submerged in water. The cattails are tall and green, with some brown, dried-out ones interspersed. | |
| Description Cattail growth before herbicide application. | | | |
| Photo No. | Date | | |
| 2 | 7/29/08 |  A photograph showing the same cattail stand one month after herbicide application. The plants appear taller and more numerous than in the previous photo, indicating regrowth. The wooden boardwalk is still visible in the foreground. | |
| Description Cattail growth 1 month after herbicide application. | | | |

Photographic Log

| Herbicide Application | | |
|---|---------------------|-------------|
| Client Name | Site Location | Project No. |
| Wisconsin Department of Natural Resources | Kewaunee, Wisconsin | 7201.09 |

| | | |
|--|-----------------|---|
| Photo No. 3 | Date 8/26/08 |  |
| Description Cattail growth 2 months after herbicide application. | | |

| | | |
|--|-----------------|--|
| Photo No. 4 | Date 9/30/08 |  |
| Description Cattail growth 3 months after herbicide application. | | |

Photographic Log

| Herbicide Application | | |
|--|--------------------------------------|---|
| Client Name Wisconsin Department of Natural Resources | Site Location Kewaunee, Wisconsin | Project No. 7201.09 |
| Photo No. 5 | Date 10/28/08 |  |
| Description Cattail growth 4 months after herbicide application. | | |