

APPENDIX C
DUPLICATE SAMPLE RESULTS

Duplicate Sample Results

A description of each of the six duplicate samples that were taken as compared to the original sample for the event is given below.

September 29, 2008 Duplicate-1 (DUP-1)

During the September 29, 2008 sampling event, a duplicate sample (DUP-1) of S-3 was collected and analyzed for dissolved metals. Two detection discrepancies for cadmium and copper were observed, where the analyte was detected in only one of the samples. Five of the twenty analytes compared have a relative percent difference greater than 50 percent. These include aluminum (55%), arsenic (117%), barium (295%), iron (173%), Manganese (105%), and zinc (96%).

Table 4 details the RPD for each of the metals for this duplicate sample.

September 29, 2008 Duplicate-2 (DUP-2)

During the September 29, 2008 sampling event, a duplicate sample (DUP-2) of S-1 was collected and analyzed for dissolved metals. Five detection discrepancies for aluminum, antimony, cadmium, selenium and vanadium were observed, where the analyte was detected in only one of the samples. Four of the twenty analytes compared have a relative percent difference greater than 50 percent. These include arsenic (125%), iron (105%), lead (91%), and zinc (156%).

Table 4 details the RPD for each of the metals for this duplicate sample.

May 27, 2009 Duplicate-3 (DUP-3)

During the May 27, 2009 sampling event, a duplicate sample (DUP-3) of S-3 was collected and analyzed for dissolved metals. Two detection discrepancies for uranium and vanadium were observed, where the analyte was detected in only one of the samples. Five of the twenty analytes compared have a relative percent difference greater than 50 percent. These include aluminum (85%), barium (102%), cadmium (67%), iron (92%), and zinc (112%).

Table 4 details the RPD for each of the metals for this duplicate sample.

June 22, 2009 Duplicate-4 (DUP-4)

During the June 22, 2009 sampling event, a duplicate sample (DUP-4) of S-1 was collected and analyzed for dissolved metals. Five of the twenty analytes compared have a relative percent difference greater than 50 percent. These include cadmium (67%), lead (116%), manganese (132%), uranium (55%), and zinc (129%).

Table 4 details the RPD for each of the metals for this duplicate sample.

Duplicate Sample Results

July 13, 2009 Duplicate-5 (DUP-5)

During the July 13, 2009 sampling event, a duplicate sample (DUP-5) of S-3 was collected and analyzed for dissolved metals. Two detection discrepancies for antimony and cadmium were observed, where the analyte was detected in only one of the samples. Seven of the twenty analytes compared have a relative percent difference greater than 50 percent, including aluminum (115%), copper (100%), iron (91%), lead (108%), manganese (69%), uranium (67%), and zinc (116%).

Table 4 details the RPD for each of the metals for this duplicate sample.

July 28, 2009 Duplicate-6 (DUP-6)

During the July 28, 2009 sampling event, a duplicate sample (DUP-6) of S-4 was collected and analyzed for dissolved metals. Three detection discrepancies for antimony, cadmium, and copper were observed, where the analyte was detected in only one of the samples. Six of the twenty analytes compared have a relative percent difference greater than 50 percent, including barium (79%), lead (64%), nickel (51%), selenium (141%), uranium (75%), and zinc (74%).

Table 4 details the RPD for each of the metals for this duplicate sample.