

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0531 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1110		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.83		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		75		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4.45		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.56		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		36086		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		159		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		8.7		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2307		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		26		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		3487		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		367		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		14.99		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		311		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		323		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.18		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1456		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0531 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		57		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		112		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1150		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.53		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		6.56		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		117		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0531 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0533 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1216		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.14		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		86		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		5.74		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.70		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		60361		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		144		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		10.3		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		3148		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		23		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		6384		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		498		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.54		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		16.54		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		456		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		447		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.24		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1637		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0533 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		82		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		195		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1951		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.00		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		5.26		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		101		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0533 SURFACE WATER LOCATION

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0535 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1213		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.80		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		79		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4.12		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.62		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		44613		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		164		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.05		0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		10.0		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2104		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		30		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4123		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		413		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.78		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		16.36		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		360		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		324		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.19		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1572		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0535 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		63		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		147		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1304		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.67		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		5.96		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		127		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0535 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0536 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1235		2.8	-
Arsenic	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1.91		0.02	-
Barium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		86		0.4	-
Boron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		4.70		0.4	-
Cadmium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.65		0.4	-
Calcium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		59946		2	-
Chloride	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		123		50	-
Chromium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		9.5		0.4	-
Iron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		3005		0.32	-
Lead	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		24		2	-
Lithium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		7348		1.6	-
Manganese	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		389		0.4	-
Molybdenum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.74		0.4	-
Nickel	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		17.68		0.4	-
Phosphorus	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		473		0.4	-
Potassium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		403		2	-
Selenium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.24		0.04	-
Silicon	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1597		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0536 SURFACE WATER LOCATION
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		91		1.2	-
Strontium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		178		2.8	-
Sulfate	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1756		200	-
Uranium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.80		0.25	-
Vanadium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		5.20		0.4	-
Zinc	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		94		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0536 SURFACE WATER LOCATION

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
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- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
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- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
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DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0538 SURFACE LOCATION, SEEP
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1118		2.8	-
Arsenic	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2.60		0.02	-
Barium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		77		0.4	-
Boron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2.28		0.4	-
Cadmium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.62		0.4	-
Calcium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		22220		2	-
Chloride	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		123		50	-
Chromium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		12.1		0.4	-
Iron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1921		0.32	-
Lead	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		43		2	-
Lithium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1527		1.6	-
Manganese	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		721		0.4	-
Molybdenum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1.51		0.4	-
Nickel	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		14.82		0.4	-
Phosphorus	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		288		0.4	-
Potassium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		268		2	-
Selenium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.14		0.04	-
Silicon	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1461		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0538 SURFACE LOCATION, SEEP
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		57		1.2	-
Strontium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		70		2.8	-
Sulfate	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		637		200	-
Uranium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		8.90		0.25	-
Vanadium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		9.54		0.4	-
Zinc	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		156		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0538 SURFACE LOCATION, SEEP
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0558

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1429		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.87		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		97		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4.41		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.47		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		52495		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		133		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		7.9		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2699		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		20		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4956		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		278		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.76		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		17.89		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		384		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		481		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.23		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1670		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0558
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		74		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		176		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2464		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.27		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		6.11		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		63		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0558

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0559

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1041		2.8	-
Arsenic	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2.83		0.02	-
Barium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		69		0.4	-
Boron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1.47		0.4	-
Cadmium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.53		0.4	-
Calcium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		16143		2	-
Chloride	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		154		50	-
Chromium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.54		0.4	-
Cobalt	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		13.0		0.4	-
Iron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1532		0.32	-
Lead	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		47		2	-
Lithium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		3.44		0.28	-
Magnesium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1574		1.6	-
Manganese	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		278		0.4	-
Molybdenum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2.19		0.4	-
Nickel	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		15.22		0.4	-
Phosphorus	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		281		0.4	-
Potassium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		257		2	-
Selenium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.14		0.04	-
Silicon	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1238		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0559
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		49		1.2	-
Strontium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		53		2.8	-
Sulfate	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1109		200	-
Uranium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		12.50		0.25	-
Vanadium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		7.94		0.4	-
Zinc	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		146		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0559

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0560

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1269		2.8	-
Arsenic	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1.94		0.02	-
Barium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		90		0.4	-
Boron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		5.29		0.4	-
Cadmium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.60		0.4	-
Calcium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		67458		2	-
Chloride	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		175		50	-
Chromium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.80		0.4	-
Cobalt	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		9.8		0.4	-
Iron	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		3519		0.32	-
Lead	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		19		2	-
Lithium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		9265		1.6	-
Manganese	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		479		0.4	-
Molybdenum	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.62		0.4	-
Nickel	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		19.28		0.4	-
Phosphorus	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		536		0.4	-
Potassium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		459		2	-
Selenium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		0.26		0.04	-
Silicon	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		1566		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0560
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		244		1.2	-
Strontium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		193		2.8	-
Sulfate	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2259		200	-
Uranium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		2.27		0.25	-
Vanadium	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		5.97		0.4	-
Zinc	mg/kg	11/30/2000	00S1	0.00 - 0.00	USGSHNO3		62		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0560

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0561

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1141		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.01		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		85		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.85		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.60		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		46716		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		164		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.76		0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		9.7		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2514		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		27		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		5231		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		428		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.70		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		17.17		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		412		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		355		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.21		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1449		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0561
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		103		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		143		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1694		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.46		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		7.06		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		105		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0561

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0999 WQD KNOWNS

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		2.8	U	2.8	-
Barium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Boron	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		13.02		0.4	-
Cadmium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Calcium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		2	U	2	-
Chloride	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		205		50	-
Chromium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		5.9		0.4	-
Iron	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		1		0.32	-
Lead	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		2	U	2	-
Lithium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		2.47		0.28	-
Magnesium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		1.6	U	1.6	-
Manganese	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Molybdenum	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		1.01		0.4	-
Nickel	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Phosphorus	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.69		0.4	-
Potassium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		9		2	-
Silicon	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		20		2	-
Sodium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		27		1.2	-
Strontium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		2.8	U	2.8	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0999 WQD KNOWN

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		200	U	200	-
Vanadium	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Zinc	mg/kg	04/01/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-

DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM1

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1104		2.8	-
Arsenic	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.27		0.02	-
Barium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		79		0.4	-
Boron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		4.78		0.4	-
Cadmium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.75		0.4	-
Calcium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		62018		2	-
Chloride	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		133		50	-
Chromium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		13.8		0.4	-
Iron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		2541		0.32	-
Lead	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		14		2	-
Lithium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		9387		1.6	-
Manganese	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		291		0.4	-
Molybdenum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.47		0.4	-
Nickel	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3.76		0.4	-
Phosphorus	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		545		0.4	-
Potassium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		408		2	-
Selenium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.26		0.04	-
Silicon	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1236		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM1
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		99		1.2	-
Strontium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		155		2.8	-
Sulfate	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		862		200	-
Uranium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.76		0.25	-
Vanadium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.22		0.4	-
Zinc	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		51		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM1

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM2

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1188		2.8	-
Arsenic	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.66		0.02	-
Barium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		87		0.4	-
Boron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		5.44		0.4	-
Cadmium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.88		0.4	-
Calcium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		63535		2	-
Chloride	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		164		50	-
Chromium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		15.4		0.4	-
Iron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3256		0.32	-
Lead	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		18		2	-
Lithium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		9548		1.6	-
Manganese	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		341		0.4	-
Molybdenum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.55		0.4	-
Nickel	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3.46		0.4	-
Phosphorus	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		570		0.4	-
Potassium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		426		2	-
Selenium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.27		0.04	-
Silicon	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1479		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM2
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		94		1.2	-
Strontium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		169		2.8	-
Sulfate	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		986		200	-
Uranium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.79		0.25	-
Vanadium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.70		0.4	-
Zinc	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		67		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM2

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM3

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1363		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2.15		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		79		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		4.76		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.13		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		49828		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		92		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		17.7		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2608		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		36		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		3849		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		372		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.50		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.88		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		425		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		366		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.23		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1735		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM3
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		76		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		155		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2012		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.77		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.74		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		171		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM3

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM4
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1218		2.8	-
Arsenic	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1.60		0.02	-
Barium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		83		0.4	-
Boron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		5.08		0.4	-
Cadmium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.85		0.4	-
Calcium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		61707		2	-
Chloride	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		133		50	-
Chromium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		14.4		0.4	-
Iron	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		2899		0.32	-
Lead	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		18		2	-
Lithium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		8021		1.6	-
Manganese	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		357		0.4	-
Molybdenum	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.45		0.4	-
Nickel	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		3.23		0.4	-
Phosphorus	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		507		0.4	-
Potassium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		420		2	-
Selenium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.25		0.04	-
Silicon	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1506		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM4
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		81		1.2	-
Strontium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		178		2.8	-
Sulfate	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		1273		200	-
Uranium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.80		0.25	-
Vanadium	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		0.77		0.4	-
Zinc	mg/kg	12/01/2000	00S1	0.00 - 0.00	USGSHNO3		82		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM4

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM9

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Aluminum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1320		2.8	-
Arsenic	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.98		0.02	-
Barium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		90		0.4	-
Boron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		5.83		0.4	-
Cadmium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.07		0.4	-
Calcium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		61057		2	-
Chloride	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		154		50	-
Chromium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Cobalt	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		17.5		0.4	-
Iron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3186		0.32	-
Lead	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		28		2	-
Lithium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		6809		1.6	-
Manganese	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		427		0.4	-
Molybdenum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.60		0.4	-
Nickel	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		2.83		0.4	-
Phosphorus	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		493		0.4	-
Potassium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		426		2	-
Selenium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.26		0.04	-
Silicon	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1654		2	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: SM9
 REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		89		1.2	-
Strontium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		190		2.8	-
Sulfate	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1591		200	-
Uranium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.82		0.25	-
Vanadium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.44		0.4	-
Zinc	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		121		0.4	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: SM9

REPORT DATE: 8/14/2001 1:26 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.