ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:SEDIMENT
METHOD: CS0788A
REVIEWER: Rg Rc
DATA FILE : M23

UNITS: MG/KG
CASE: 6568G
DATE: 08/22/91
BASIS: WET/DRY WT

SAMPLES	DSX72001	DSX72002	DSX72003	DSX72004
ALUMINUM	3000	8300	4300	7000
ANTIMONY	13 U	15 U	14 U	14 U
ARSENIC	2.1 U	2.5 U	2.3 U	3.0 J
BARIUM	42 U	84	47	83
BERYLLIUM	1.0 U	1.2 U	1.1 U	1.1 U
CADMIUM	1.0 U	1.2 U	1.1 U	1.1 U
CALCIUM	2100 J	4500 J	8700 J	14000 J
CHROMIUM	6.7	15	10	12
COBALT	10 U	12 U	11 U	11 U
COPPER	5.2 U	6.3	7.9	7.0
IRON	8100	14000	9500	14000
LEAD	2.6	9.0	21	12
MAGNESIUM	1000 U	1800	3000	4100
MANGANESE	170 J	490 J	200 J	280 J
MERCURY	0.10 U	0.12 U	0.11 U	0.11 U
NICKEL	8.4 U	13	9.7	12
POTASSIUM	1000 U	1200 U	1100 U	1100 U
SELENIUM	1.0 U	1.2 U	1.1 U	1.1 U
SILVER	2.1 U	2.5 U	2.3 U	2.3 U
SODIUM	1000 U	1200 U	1100 U	1100 U
THALLIUM	2.1 U	2.5 U	2.3 U	2.3 U
VANADIUM	10 U	22	12	18
ZINC	14 J	28 J	33 J	44 J
CYANIDE	5.2 U	6.2 U	5.7 U	5.7 U
MOLYBDENUM	N/A O	N/A O	N/A O	N/A O
TITANIUM	N/A O	N/A O	N/A O	N/A O

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ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX: SEDIMENT
METHOD: CS0788A
REVIEWER: RR RL
DATA FILE : M23

UNITS: MG/KG
CASE: 6568G
DATE: 08/22/91
BASIS: WET/DRY WT

SAMPLES	DSX72005	DSX72006	DSX72007	DSX72008
ALUMINUM	6900	12000	10000	15000
ANTIMONY	15 U	16 U	14 U	16 U
ARSENIC	10	5.7	4.8 J	4.2
BARIUM	100	190	110	170
BERYLLIUM	1.2 U	1.3 U	1.2 U	1.4 U
CADMIUM	1.2 U	1.3 U	1.2 U	1.4 U
CALCIUM	5500 J	6200 J	3900 J	5700 J
CHROMIUM	11	18	14	20
COBALT	12 U	13 U	12 U	14 U
COPPER	9.8	19	7.8	12
IRON	28000	41000	14000	20000
LEAD	69	29	13	13
MAGNESIUM	1300	1800	1700	2800
MANGANESE	51 J	95 J	680 J	1200 J
MERCURY	0.12 U	0.13 U	0.12 U	0.14 U
NICKEL	9.9 U	11	13	18
POTASSIUM	1200 U	1500	1200 U	1400 U
SELENIUM	1.4	1.3 U	1.2 U	1.4 U
SILVER	2.5 U	2.6 U	2.3 U	2.7 U
SODIUM	1200 U	1300 U	1200 U	1400 U
THALLIUM	2.5 U	2.6 U	2.3 U	2.7 U
VANADIUM	25	30	24	34
ZINC	33 J	52 J	40 J	56 J
CYANIDE	6.2 U	6.5 U	5.8 U	6.8 U
MOLYBDENUM	N/A O	N/A O	N/A O	N/A O
TITANIUM	N/A O	N/A O	N/A O	N/A O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:SEDIMENT
METHOD: CS0788A
REVIEWER: RC
DATA FILE : M23

UNITS: MG/KG
CASE: 6568G
DATE: 08/22/91
BASIS: WET/DRY WT

SAMPLES	DSX72008D		DSX72101	
ALUMINUM	14000		5300	
ANTIMONY	15	U	13	U
ARSENIC	4.9		2.3	
BARIUM	220		48	
BERYLLIUM	1.3	U	1.1	U
CADMIUM	1.3	U	1.1	U
CALCIUM	7000	J	13000	J
CHROMIUM	18		9.2	
COBALT	13	U	11	U
COPPER	11		5.6	
IRON	21000		9300	
LEAD	18		12	
MAGNESIUM	2900		2100	
MANGANESE	1400	J	300	J
MERCURY	0.13	U	0.11	U
NICKEL	17		9.1	
POTASSIUM	1300	U	1100	U
SELENIUM	1.3	U	1.1	U
SILVER	2.6	U	2.2	U
SODIUM	1300	U	1100	U
THALLIUM	2.6	U	2.2	U
VANADIUM	33		15	
ZINC	64	J	28	J
CYANIDE	6.4	U	5.4	U
MOLYBDENUM	N/A	O	N/A	O
TITANIUM	N/A	O	N/A	O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:WATER
METHOD: CS0788A
REVIEWER: RR RR
DATA FILE : N23

UNITS: UG/L
CASE: 6568G
DATE: 08/22/91

SAMPLES	DSX72103	DSX72104	DSX72106F
ALUMINUM	200 U	200 U	200 U
ANTIMONY	60 U	60 U	60 U
ARSENIC	10 U	10 U	10 U
BARIUM	200 U	200 U	200 U
BERYLLIUM	5.0 U	5.0 U	5.0 U
CADMIUM	5.0 U	5.0 U	5.0 U
CALCIUM (mg/L)	71	65	5.0 U
CHROMIUM	10 U	10 U	10 U
COBALT	50 U	50 U	50 U
COPPER	25 U	25 U	25 U
IRON	100 U	100 U	100 U
LEAD	3.0 U	4.0 U	3.0 U
MAGNESIUM (mg/L)	20	19	5.0 U
MANGANESE	15 U	15 U	15 U
MERCURY	0.20 U	0.20 U	0.20 U
NICKEL	40 U	40 U	40 U
POTASSIUM (mg/L)	5.0 U	5.0 U	5.0 U
SELENIUM	5.0 U	5.0 U	5.0 U
SILVER	10 U	10 U	10 U
SODIUM (mg/L)	7.8	5.6	5.0 U
THALLIUM	10 U	10 U	10 U
VANADIUM	50 U	50 U	50 U
ZINC	20 U	20 U	20 U
CYANIDE (mg/L)	0.020 U	0.010 U	0.010 U
MOLYBDENUM	N/A O	N/A O	N/A O
TITANIUM	N/A O	N/A O	N/A O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:SEDIMENT
METHOD: CS0788A
REVIEWER: R R
DATA FILE : M23

UNITS: MG/KG
CASE: 6568G
DATE: 08/22/91
BASIS: WET/DRY WT

SAMPLES	DSX72002L		DSX72002R		DSX72002S		DSX72904M	
ALUMINUM	7800		N/A	O	N/A	O	40	U
ANTIMONY	15	U	120		82		12	U
ARSENIC	2.4	U	9.7		11		2.0	U
BARIUM	86		480		670		40	U
BERYLLIUM	1.2	U	12		11		1.0	U
CADMIUM	1.2	U	12		11		1.0	U
CALCIUM	3400	J	N/A	O	N/A	O	1000	U
CHROMIUM	12		48		58		2.0	U
COBALT	12	U	120		130		10	U
COPPER	6.2		61		60		5.0	U
IRON	14000		N/A	O	N/A	O	20	U
LEAD	9.9		4.8		13		1.0	U
MAGNESIUM	1400		N/A	O	N/A	O	1000	U
MANGANESE	370	J	120		2600	J	3.0	U
MERCURY	0.12	U	0.56		0.59		0.10	U
NICKEL	10		120		130		8.0	U
POTASSIUM	1200	U	N/A	O	N/A	O	1000	U
SELENIUM	1.2	U	2.4		2.4		1.0	U
SILVER	2.4	U	12		10		2.0	U
SODIUM	1200	U	N/A	O	N/A	O	1000	U
THALLIUM	2.4	U	12		11		2.0	U
VANADIUM	20		120		140		10	U
ZINC	30	J	120		140	J	4.0	U
CYANIDE	6.1	U	7.3		7.1		5.0	U
MOLYBDENUM	N/A	O	N/A	O	N/A	O	N/A	O
TITANIUM	N/A	O	N/A	O	N/A	O	N/A	O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:SEDIMENT
METHOD: CS0788A
REVIEWER: RR RC
DATA FILE : M23

UNITS: MG/KG
CASE: 6568G
DATE: 08/22/91
BASIS: WET/DRY WT

SAMPLES	DSX72907A		DSX72907C	
ALUMINUM	320		380	
ANTIMONY	210		230	J
ARSENIC	920		930	
BARIUM	4.8		40	U
BERYLLIUM	19		18	
CADMIUM	45		41	
CALCIUM	200000		210000	J
CHROMIUM	100		92	
COBALT	140		130	
COPPER	6900		7300	
IRON	22000		22000	
LEAD	240		250	
MAGNESIUM	120000		110000	
MANGANESE	210		190	J
MERCURY	13		11	
NICKEL	61		51	
POTASSIUM	50		1000	U
SELENIUM	39		42	
SILVER	22		20	
SODIUM	50		1000	U
THALLIUM	39		40	
VANADIUM	66		61	
ZINC	190		170	J
CYANIDE	5.6		6.7	
MOLYBDENUM	N/A	O	N/A	O
TITANIUM	N/A	O	N/A	O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:WATER
METHOD: CS0788A
REVIEWER: RL RG
DATA FILE : N23

UNITS: UG/L
CASE: 6568G
DATE: 08/22/91

SAMPLES	DSX72103L	DSX72103R	DSX72103S	DSX72905M
ALUMINUM	200 U	2000	1900	200 U
ANTIMONY	60 U	500	490	60 U
ARSENIC	10 U	40	37	10 U
BARIUM	200 U	2000	2000	200 U
BERYLLIUM	5.0 U	50	48	5.0 U
CADMIUM	5.0 U	50	46	5.0 U
CALCIUM (mg/L)	70	N/A O	N/A O	5.0 U
CHROMIUM	10 U	200	190	10 U
COBALT	50 U	500	480	50 U
COPPER	25 U	250	230	25 U
IRON	100 U	1000	990	100 U
LEAD	3.0 U	20	22	3.0 U
MAGNESIUM (mg/L)	20	N/A O	N/A O	5.0 U
MANGANESE	15 U	500	470	15 U
MERCURY	0.20 U	1.0	0.89	0.20 U
NICKEL	40 U	500	480	40 U
POTASSIUM (mg/L)	5.0 U	N/A O	N/A O	5.0 U
SELENIUM	5.0 U	10	12	5.0 U
SILVER	10 U	50	45 J	10 U
SODIUM (mg/L)	8.0	N/A O	N/A O	5.0 U
THALLIUM	10 U	50	53	10 U
VANADIUM	50 U	500	480	50 U
ZINC	20 U	50	500	20 U
CYANIDE (mg/L)	0.020 U	0.10	0.095	0.010 U
MOLYBDENUM	N/A O	N/A O	N/A O	N/A O
TITANIUM	N/A O	N/A O	N/A O	N/A O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:WATER
METHOD: CS0788A
REVIEWER: RR RC
DATA FILE : N23

UNITS: UG/L
CASE: 6568G
DATE: 08/22/91

SAMPLES	DSX72906A		DSX72906C		DSX72940P		DSX72940T	
ALUMINUM	2200		1900		N/A	O	N/A	O
ANTIMONY	980		970		N/A	O	N/A	O
ARSENIC	47		44		N/A	O	N/A	O
BARIUM	2000		1800		N/A	O	N/A	O
BERYLLIUM	510		470		N/A	O	N/A	O
CADMIUM	500		490		N/A	O	N/A	O
CALCIUM (mg/L)	52		49		N/A	O	N/A	O
CHROMIUM	510		480		N/A	O	N/A	O
COBALT	520		480		N/A	O	N/A	O
COPPER	520		460		N/A	O	N/A	O
IRON	2000		1900		N/A	O	N/A	O
LEAD	98		98		N/A	O	N/A	O
MAGNESIUM (mg/L)	26		24		N/A	O	N/A	O
MANGANESE	520		480		N/A	O	N/A	O
MERCURY	N/A	O	N/A	O	N/A	O	N/A	O
NICKEL	500		480		N/A	O	N/A	O
POTASSIUM (mg/L)	52		47		N/A	O	N/A	O
SELENIUM	53		50		N/A	O	N/A	O
SILVER	99		480		N/A	O	N/A	O
SODIUM (mg/L)	51		48		N/A	O	N/A	O
THALLIUM	97		100		N/A	O	N/A	O
VANADIUM	510		460		N/A	O	N/A	O
ZINC	3300		3200		N/A	O	N/A	O
CYANIDE (mg/L)	N/A	O	N/A	O	0.010	U	0.035	
MOLYBDENUM	N/A	O	N/A	O	N/A	O	N/A	O
TITANIUM	N/A	O	N/A	O	N/A	O	N/A	O

ANALYSIS TYPE: METALS, TOTAL

TITLE: CEDAR FALLS FMGP
LAB: BETZPA
SAMPLE PREP: _____ ANALYST/ENTRY: RKE
REVIEW LEVEL: 2

MATRIX:WATER
METHOD: CS0788A
REVIEWER: RL RL
DATA FILE : N23

UNITS: UG/L
CASE: 6568G
DATE: 08/23/91

SAMPLES	DSX72944P		DSX72944T	
ALUMINUM	280	U	210	
ANTIMONY	60	U	N/A	O
ARSENIC	10	U	53	
BARIUM	200	U	N/A	O
BERYLLIUM	54		58	
CADMIUM	19		18	
CALCIUM (mg/L)	5.0	U	N/A	O
CHROMIUM	12		14	
COBALT	79		85	
COPPER	25	U	18	
IRON	100	U	42	
LEAD	84		85	
MAGNESIUM (mg/L)	5.0	U	N/A	O
MANGANESE	23	U	26	
MERCURY	1.0		1.3	
NICKEL	40	U	34	
POTASSIUM (mg/L)	5.0	U	N/A	O
SELENIUM	21		22	
SILVER	10	U	N/A	O
SODIUM (mg/L)	5.0	U	N/A	O
THALLIUM	10	U	N/A	O
VANADIUM	240		260	
ZINC	23		20	
CYANIDE (mg/L)	N/A	O	N/A	O
MOLYBDENUM	N/A	O	N/A	O
TITANIUM	N/A	O	N/A	O