RESULT_	CONTAIN	CONTAIN	CONTAIN	CONTAIN	TEMP_PR	CHEM_PF	LAB_ANL_	ANALYSIS
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	09/11/200
UG/L						HNO3	MS	

UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200

UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200
UG/L	HNO3	MS	09/11/200

ANALYSIS	TEST_TYI	LAB_MAT	ANALYSIS	WET_OR	DILUTION	PREP_ME	PREP_DA	PREP_TIM
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
23:11		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
22:42		W	LB	WET	1		09/10/200	
		W	LB	WET	1			
22:34		W	LB	WET	1		09/10/200	
22:34		W	LB	WET	1		09/10/200	
22:34		W	LB	WET	1		09/10/200	
22:34		W	LB	WET	1		09/10/200	
22:34		W	LB	WET	1		09/10/200	
		W	LB	WET	1			

22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:34	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
22:34	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
22:49	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200

	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
	W	LB	WET	1	
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
22:56	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
	W	LB	WET	1	
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200
23:04	W	LB	WET	1	09/10/200

LAB_NAM	QC_LEVE	LAB_SAM	PERCENT	SUBSAMF	SUBSAMF	TEST_CO	FINAL_VC	FINAL_VC
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
CHEM	DEFINITI\	[redacted]		50	ML		50	ML
	DEFINITI\	[redacted]						ML

CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
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	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
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CHEM	DEFINITI\	50 ML	50 ML
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CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
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CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
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CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
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	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
	DEFINITI\		ML
CHEM	DEFINITI\	50 ML	50 ML
CHEM	DEFINITI\	50 ML	50 ML

	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
	DEFINITI\ [redacted]		ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML
CHEM	DEFINITI\ [redacted]	50 ML	50 ML

RESULT_	RESULT_	REPORTA	DETECT_	LAB_QUA	VALIDATC	ORGANIC	REPORTI	QUANTIT
	TRG	YES	N			N		
	TRG	YES	N	U	U	N		2
	TRG	YES	Y			N		1
	TRG	YES	Y	J	J	N		10
	TRG	YES	N	U	U	N		1
	TRG	YES	N	U	U	N		1
	TRG	YES	N			N		
	TRG	YES	Y	J	B	N		2
	TRG	YES	N	U	U	N		1
	TRG	YES	Y			N		2
	TRG	YES	N			N		100
	TRG	YES	Y			N		1
	TRG	YES	N			N		
	TRG	YES	Y			N		1
	TRG	YES	Y	J	J	N		1
	TRG	YES	N			N		
	TRG	YES	N	U	UL	N		5
	TRG	YES	N	U	UL	N		1
	TRG	YES	N			N		
	TRG	YES	N	U	U	N		1
	TRG	YES	Y	J	B	N		5
	TRG	YES	Y			N		2
	TRG	YES	N			N		
	TRG	YES	Y	J	B	N		2
	TRG	YES	Y			N		1
	TRG	YES	Y			N		10
	TRG	YES	N	U	U	N		1
	TRG	YES	Y	J	J	N		1
	TRG	YES	N			N		
	TRG	YES	Y	J	B	N		2
	TRG	YES	N	U	U	N		1
	TRG	YES	Y			N		2
	TRG	YES	N			N		100
	TRG	YES	Y			N		1
	TRG	YES	N			N		
	TRG	YES	Y			N		1
	TRG	YES	Y			N		1
	TRG	YES	N			N		
	TRG	YES	N	U	UL	N		5
	TRG	YES	Y	J	B	N		1
	TRG	YES	N			N		
	TRG	YES	N	U	U	N		1
	TRG	YES	Y	J	J	N		5
	TRG	YES	Y			N		2
	TRG	YES	N			N		
	TRG	YES	Y	J	B	N		2
	TRG	YES	Y		B	N		1
	TRG	YES	Y			N		10
	TRG	YES	N	U	U	N		1
	TRG	YES	Y	J	J	N		1
	TRG	YES	N			N		

TRG	YES	Y	J	J	N	2
TRG	YES	Y	J	B	N	1
TRG	YES	Y			N	2
TRG	YES	N			N	100
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	Y			N	1
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	N	U	UL	N	5
TRG	YES	Y	J	B	N	1
TRG	YES	N			N	
TRG	YES	Y	J	B	N	1
TRG	YES	Y	J	B	N	5
TRG	YES	Y			N	2
TRG	YES	N			N	
TRG	YES	Y	J	B	N	2
TRG	YES	Y			N	1
TRG	YES	Y			N	10
TRG	YES	N	U	U	N	1
TRG	YES	N	U	U	N	1
TRG	YES	N			N	
TRG	YES	Y	J	B	N	2
TRG	YES	N	U	U	N	1
TRG	YES	Y			N	2
TRG	YES	N			N	100
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	Y			N	1
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	N	U	UL	N	5
TRG	YES	Y	J	B	N	1
TRG	YES	N			N	
TRG	YES	N	U	U	N	1
TRG	YES	Y	J	B	N	5
TRG	YES	Y			N	2
TRG	YES	N			N	
TRG	YES	Y	J	B	N	2
TRG	YES	Y			N	1
TRG	YES	Y			N	10
TRG	YES	Y	J	J	N	1
TRG	YES	N	U	U	N	1
TRG	YES	N			N	
TRG	YES	Y	J	J	N	2
TRG	YES	N	U	U	N	1
TRG	YES	Y			N	2
TRG	YES	N			N	100
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	Y			N	1
TRG	YES	Y			N	1

TRG	YES	N			N	
TRG	YES	N	U	UL	N	5
TRG	YES	Y	J	B	N	1
TRG	YES	N			N	
TRG	YES	N	U	U	N	1
TRG	YES	Y	J	J	N	5
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TRG	YES	N			N	
TRG	YES	N	U	U	N	2
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TRG	YES	Y			N	10
TRG	YES	N	U	U	N	1
TRG	YES	N	U	U	N	1
TRG	YES	N			N	
TRG	YES	Y	J	J	N	2
TRG	YES	Y	J	B	N	1
TRG	YES	Y			N	2
TRG	YES	N			N	100
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	Y			N	1
TRG	YES	Y			N	1
TRG	YES	N			N	
TRG	YES	N	U	UL	N	5
TRG	YES	Y	J	B	N	1
TRG	YES	N			N	
TRG	YES	N	U	U	N	1
TRG	YES	Y	J	J	N	5
TRG	YES	Y			N	2

DETECTI(	RESULT_	QC_ORIG	QC_SPIKI	QC_SPIKI	QC_SPIKI	QC_DUP_	QC_DUP_	QC_DUP_
UG/L								
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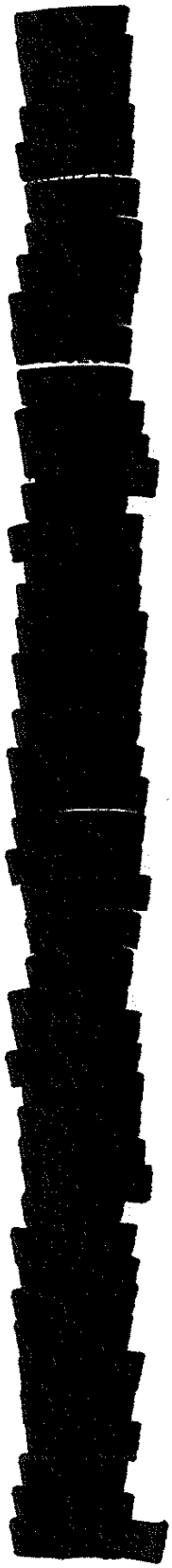
QC_DUP_ QC_RPD QC_SPIKI QC_SPIKI QC_RPD_ QC_SPIKI QC_DUP_ QC_RPD_ TEST_BA

TEST_BATCH_ID

[redacted]



[redacted]

Lisa
Penix/ESC/R3/USEPA/US
10/01/2008 08:55 AM

To Christine Wagner/R3/USEPA/US@EPA
cc Victor Yastrop/ESC/R3/USEPA/US@EPA,
bcc [redacted]
Subject [redacted] - Validated Electronic Data for Battlefield Golf Club

Christine Wagner, 3HS32
US EPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

October 1, 2008

Dear Christine,

Attached to this message you will find electronic files containing the **validation report and validated** inorganic data for the Battlefield Gold Club site, Case # [redacted] SDG [redacted] The validation of this case was completed by the Region III Environmental Services Assistance Team (ESAT).

Please contact ESAT's PO, Colleen Walling by phone at 410-305-2763 or e-mail at Walling.Colleen@epa.gov if additional assistance is needed.

Sincerely,

Lisa D. Penix

TO # [redacted] TDF # [redacted]

[redacted]

****

Lisa D. Penix
ESAT Region 3
Lockheed Martin Enterprise Solutions & Services
EPA Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755
Telephone (410) 305 - 3020
Fax (410) 305 - 3095
email: Penix.Lisa@epamail.epa.gov

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MARYLAND 20755-5350

DATE : September 30, 2008

SUBJECT: Region III Data QA Review

FROM : Colleen Walling
Region III ESAT RPO (3EA20)

TO : Christine Wagner
Regional Project Manager (3HS32)

Attached is the inorganic data validation report for the Battlefield Gulf Club site (Case #[redacted] SDG [redacted]) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

cc: [redacted] (TETRA TECH EMI)

TO File #: [redacted] TDF#: [redacted]

Lockheed Martin Enterprise Solutions & Services
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN
We never forget who we're working for

Date: September 30, 2008

Subject: Inorganic Data Validation (IM2 Level)
Case: [redacted]
SDG : [redacted]
Site : Battlefield Golf Club

From: [redacted]
Inorganic Data Reviewer

[redacted]
Senior Oversight Chemist

To: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Case [redacted] Sample Delivery Group (SDG) [redacted], consisted of twenty (20) aqueous samples analyzed for aluminum (Al), calcium (Ca), iron (Fe), magnesium (Mg), potassium (K), sodium (Na) and mercury (Hg). In addition, boron (B) and molybdenum (Mo) were analyzed per modification reference number 1629.0. The sample set included one (1) field duplicate pair. Samples were analyzed by ChemTech Consulting Group (CHEM) according to the Contract Laboratory Program (CLP) Statement of Work (SOW) ILM05.4 through the Routine Analytical Services (RAS) program.

SUMMARY

Data were validated according to Region III Modifications to the National Functional Guidelines for Inorganic Data Review, Level IM2. Areas of concern with respect to data usability are listed below.

Data in this case have been impacted by outliers present in the laboratory blanks and ICP serial dilution analyses. Details of these outliers are discussed under "Minor Problems," specific samples affected are outlined in "Table 1A" and qualified analytical results for all samples are summarized on the Data Summary Forms (DSFs).

MINOR PROBLEMS

Continuing calibration (CCB) and preparation (PB) blanks had reported results greater than the Method Detection Limit (MDL) for boron. The positive results for this analyte in affected samples which are less than or equal to five times ($\leq$5X) the blank concentration may be biased high and have been qualified "B" on the DSFs.

CCBs had negative results greater than the absolute value of the MDL for Hg. The quantitation limits for this analyte in affected samples may be biased low and have been qualified "UL" on the DSFs.

The percent difference (%D) in the ICP serial dilution analysis was outside the control limit (>10%) for Na. The positive results for this analyte in all samples are estimated due to possible matrix interferences and has been qualified "J" on the DSFs.

NOTES

Results for field duplicate pair [redacted] were comparable.

Reported results between MDLs and Contract Required Quantitation Limits (CRQLs) were qualified "J" on the DSFs.

Data for Case [redacted] SDG [redacted], were reviewed in accordance with the National Functional Guidelines for Evaluating Inorganic Analyses with Modifications for use within Region III.

ATTACHMENTS

INFORMATION REGARDING REPORT CONTENT

Table 1A is a summary of qualifiers applied to the laboratory-generated results during data validation.

Table 1A	Summary of qualifiers on data summary forms after data validation
Table 1B	Codes used in comments column of Table 1A
Appendix A	Glossary of Data Qualifier Codes
Appendix B	Data Summary Form(s)
Appendix C	Chain of Custody Records
Appendix D	Laboratory Case Narrative

DCN: [redacted]

TABLE 1A
SUMMARY OF QUALIFIERS ON DATA SUMMARY FORM AFTER DATA VALIDATION

Case [redacted] SDG [redacted]

ANALYTE	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
Hg	All samples except [redacted]		UL	Low	CBN (-0.121 J ug/L)
	[redacted]		UL	Low	CBN (-0.099 J ug/L)
Na	All samples	J			ISD (19%)
B	[redacted]	B		High	CCB (17.605 J ug/L)
	[redacted]	B		High	PB (5.965 J ug/L)

* See explanation of comments in Table 1B

TABLE 1B
CODES USED IN COMMENTS COLUMN

CBN	=	Continuing calibration blanks had negative results with absolute values > MDL [results are in parenthesis]. The quantitation limit may be biased low.
ISD	=	Percent difference (%D) in the ICP serial dilution analysis was outside the control limit (>10%) [%D is in parenthesis]. Positive results are estimated.
CCB	=	Continuing calibration blank had result >MDL [result is in parenthesis]. The positive result which is ≤5X the blank concentration may be biased high.
PB	=	Preparation blank had result > MDL [result is in parenthesis]. Positive results which are ≤5X the blank concentration may be biased high.

Appendix A

Glossary of Data Qualifier Codes

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: INORGANIC

Case #: [redacted]
SDG : [redacted]
Site : BATTLEFIELD GOLF CLUB
Lab. : CHEM

Number of Soil Samples : 0
Number of Water Samples : 20

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/26/2008		8/26/2008		8/25/2008		8/25/2008	
Time Sampled :		09:59		16:45		16:45		10:43		10:40	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	21.5	J	22.7	J						
BORON	50	275		290		295		113		116	
CALCIUM	5000	65500		62900		66100		67900		26300	
IRON	100	615		12.6	J	631		1190		180	
MAGNESIUM	5000	42000		43500		44000		18300		12800	
MOLYBDENUM	5										
MERCURY	0.2		UL	0.40			UL		UL		UL
POTASSIUM	5000	23200		24400		24900		8760		9450	
SODIUM	5000	222000	J	247000	J	247000	J	69300	J	51800	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		11:24		11:31		13:28		13:36		14:16	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200			20.7	J			23.7	J	93.6	J
BORON	50	114		29.1	B	107		124		54.9	
CALCIUM	5000	26100		15600		39500		41700		71600	
IRON	100	175		12900		1980		1760		2830	
MAGNESIUM	5000	12800		6670		19300		19800		17200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	9480		2970	J	10500		11100		4810	J
SODIUM	5000	51200	J	10100	J	68700	J	76700	J	49800	J

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: [redacted]
SDG : [redacted]
Site : BATTLEFIELD GOLF CLUB
Lab. : CHEM

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Field QC :						Dup. of [redacted]		Dup. of [redacted]			
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		15:15		16:23		19:19		19:19		20:15	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	94.4		16.9	B	29.8	B	30.8	J	18.4	B
CALCIUM	5000	73900		42600		225000		223000		50700	
IRON	100	1420		6600		1660		1560		8060	
MAGNESIUM	5000	18000		18400		12700		12700		23200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	7540		2530	J	4630	J	4500	J	2800	J
SODIUM	5000	64400	J	32600	J	127000	J	125000	J	50300	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/26/2008		8/26/2008		8/26/2008		8/26/2008		8/26/2008	
Time Sampled :		07:46		08:19		09:18		09:16		10:26	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	363		26.6	B	284		44.2	J	115	
CALCIUM	5000	32000		37400		29400		64200		29500	
IRON	100	192		644		194		4390		133	
MAGNESIUM	5000	28900		5050		27100		20200		13900	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	20600		2670	J	19600		4300	J	8710	
SODIUM	5000	340000	J	16600	J	238000	J	45500	J	65200	J

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

Case #: [redacted]

SDG : [redacted]

Site : BATTLEFIELD GOLF CLUB

Lab. : CHEM

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Field QC :						Dup. of [redacted]		Dup. of [redacted]			
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		15:15		16:23		19:19		19:19		20:15	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	94.4		16.9	B	29.8	B	30.8	J	18.4	B
CALCIUM	5000	73900		42600		225000		223000		50700	
IRON	100	1420		6600		1660		1560		8060	
MAGNESIUM	5000	18000		18400		12700		12700		23200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	7540		2530	J	4630	J	4500	J	2800	J
SODIUM	5000	64400	J	32600	J	127000	J	125000	J	50300	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/26/2008		8/26/2008		8/26/2008		8/26/2008		8/26/2008	
Time Sampled :		07:46		08:19		09:18		09:16		10:26	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	363		26.6	B	284		44.2	J	115	
CALCIUM	5000	32000		37400		29400		64200		29500	
IRON	100	192		644		194		4390		133	
MAGNESIUM	5000	28900		5050		27100		20200		13900	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	20600		2670	J	19600		4300	J	8710	
SODIUM	5000	340000	J	16600	J	238000	J	45500	J	65200	J

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: [redacted]
SDG : [redacted]
Site : BATTLEFIELD GOLF CLUB
Lab. : CHEM

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Field QC :						Dup. of [redacted]		Dup. of [redacted]			
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		15:15		16:23		19:19		19:19		20:15	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	94.4		16.9	B	29.8	B	30.8	J	18.4	B
CALCIUM	5000	73900		42600		225000		223000		50700	
IRON	100	1420		6600		1660		1560		8060	
MAGNESIUM	5000	18000		18400		12700		12700		23200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	7540		2530	J	4630	J	4500	J	2800	J
SODIUM	5000	64400	J	32600	J	127000	J	125000	J	50300	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/26/2008		8/26/2008		8/26/2008		8/26/2008		8/26/2008	
Time Sampled :		07:46		08:19		09:18		09:16		10:26	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	363		26.6	B	284		44.2	J	115	
CALCIUM	5000	32000		37400		29400		64200		29500	
IRON	100	192		644		194		4390		133	
MAGNESIUM	5000	28900		5050		27100		20200		13900	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	20600		2670	J	19600		4300	J	8710	
SODIUM	5000	340000	J	16600	J	238000	J	45500	J	65200	J

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

Appendix C

Chain of Custody Records

U.S. EPA Region III Analytical Request Form

[redacted] 8-25-08

ASO/AB USE ONLY		
RAS#	[redacted]	Analytical TAT
DAS#		14
NSF#		

10339

[redacted]

Date: 8/21/2008	Site Activity: **Removal Assessment**		
Site Name: **Battlefield Golf Club**	Street Address: 1001 South Centerville Turnpike		
City: Chesapeake	State: VA	Latitude: 36.68982	Longitude: 76.17790
Program: Superfund	Acct. #: 2008T03 N 302DC6C A3LM RS00	CERCLIS #: VAN000306614	
Site ID:	Spill ID: A3LM	Operable Unit:	
Site Specific QA Plan Submitted: ☐ No ☒ Yes	Title: Battlefield Golf Club Fly Ash Assessment SAP	Date Approved: 8/20/2008	
EPA Project Leader: CHRIS WAGNER	Phone#:	Cell Phone #: 804-337-3049	E-mail: Wagner.Christine@epa.gov
Request Preparer: [redacted]	Phone#: [redacted]	Cell Phone #: [redacted]	E-mail: [redacted]
Site Leader: [redacted]	Phone#: [redacted]	Cell Phone #: [redacted]	E-mail: [redacted]
Contractor: Tetra Tech EM Inc	EPA CO/PO: Lorrie Murray/Karen Wodarczyk		
#Samples [redacted]	Matrix: soil	Parameter: TAL Metals + Boron + Molybdenum + Hg CHEM	Method: ILM05.4 ICPAES+Hg
#Samples [redacted]	Matrix: groundwater	Parameter: TAL Metals + Boron + Molybdenum + Hg	Method: ILM05.4 ICPAES+Hg
#Samples [redacted]	Matrix: potable water	Parameter: TAL metals Low(w/o Al,Ca,Fe,K,Mg,Na)&B,Mo,Hg	Method: ILM05.4 ICPMS & Hg
#Samples [redacted]	Matrix: potable water	Parameter: Al, Ca, Fe, K, Mg, Na	Method: ILM05.4 ICPAES
#Samples [redacted]	Matrix: groundwater	Parameter: TAL metals Low(w/o Al,Ca,Fe,K,Mg,Na)&B,Mo,Hg	Method: ILM05.4 ICPMS & Hg
#Samples [redacted]	Matrix: groundwater	Parameter: Al, Ca, Fe, K, Mg, Na	Method: ILM05.4 ICPAES
#Samples	Matrix:	Parameter:	Method:
#Samples	Matrix:	Parameter:	Method:
Ship Date From: 8/29/2008	Ship Date To: 9/3/2008	Org. Validation Level	Inorg. Validation Level IM2

Unvalidated Data Requested: ☐ No ☒ **Yes** If Yes, TAT Needed: ☐ 24hrs ☐ 48hrs ☐ 72hrs ☐ 7days ☒ Other (Specify) **14 days**

Validated Data Package Due: ☐ 14 days ☐ 21 days ☒ **30days** ☐ 42 days ☐ Other (Specify)

Electronic Data Deliverables Required: ☐ No ☒ Yes (EDDs will be provided in Region 3 EDD Format)

Special Instructions: See attached DLs.

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: [redacted] R
DAS No: [redacted]

10340

Region: 3	Date Shipped: 9/2/2008	Chain of Custody Record	Sampler Signature: [redacted]
Project Code: [redacted]	Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill: 961942977974,	1	
CERCLIS ID: VAN000306614	Shipped to: ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2.	
Spill ID: ALM		3.	
Site Name/State: Battlefield Golf/VA		4.	
Project Leader: [redacted]			
Action: Preliminary Assessment			
Sampling Co: Tetra Tech EM Inc.			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	[redacted] (HNO3), 902 (HNO3) (2)	[redacted]	S: 8/28/2008	13:05		Recd 9/17/08 [redacted]
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	[redacted] (HNO3), 903 (HNO3) (2)	[redacted]	S: 8/28/2008	13:25		-- [redacted]
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	[redacted] (HNO3), 904 (HNO3) (2)	[redacted]	S: 8/29/2008	15:55		Recd. 9/24 [redacted]
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	791 (HNO3), 905 (HNO3) (2)	[redacted]	S: 8/29/2008	13:50		-- [redacted] ICP-AES
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	792 (HNO3), 906 (HNO3) (2)	[redacted]	S: 8/29/2008	13:50		--
[redacted]	Ground Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	793 (HNO3), 907 (HNO3) (2)	[redacted]	S: 8/29/2008	14:50		--
[redacted]	Surface Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	794 (HNO3), 908 (HNO3) (2)	[redacted]	S: 8/29/2008	12:51		--
[redacted]	Surface Water/ [redacted]	M/G	TAL DM+B+M (14), TAL TM+B+M (14)	795 (HNO3), 909 (HNO3) (2)	[redacted]	S: 8/29/2008	15:40		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	796 (HNO3) (1)	[redacted]	S: 8/25/2008	9:27		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	797 (HNO3) (1)	[redacted]	S: 8/25/2008	9:59		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	798 (HNO3) (1)	[redacted]	S: 8/26/2008	16:45		--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TAL DM+B+M = TAL Diss Metals+Boron+Moly, TAL Met+B+ = TAL Metals + Boron + Molybdenum, TAL TM+B+M = TAL Total Metals+Boron+Moly

TR Number: [redacted]

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn [redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

10341

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: [redacted] R
DAS No:

Region:	3	Date Shipped:	9/2/2008
Project Code:	[redacted]	Carrier Name:	FedEx
Account Code:		Airbill:	961942977974,
CERCLIS ID:	VAN000306614	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900
Spill ID:	ALM		
Site Name/State:	Battlefield Golf/VA		
Project Leader:	[redacted]		
Action:	Preliminary Assessment		
Sampling Co:	Tetra Tech EM Inc.		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1			
2.			
3.			
4.			

Sampler Signatu[redacted]

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~799~~ (HNO3) (1)	[redacted]	S: 8/26/2008	16:45		--
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~801~~ (HNO3) (1)	[redacted]	S: 8/25/2008	10:43		--
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~802~~ (HNO3) (1)	[redacted]	S: 8/25/2008	10:40		--
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~803~~ (HNO3) (1)	[redacted]	S: 8/25/2008	11:24		--
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~804~~ (HNO3) (1)	[redacted]	S: 8/25/2008	11:31		--
[redacted]	Potable Well/ [redacted]	M/G	~~TAL TM+B+M (14)~~	~~805~~ (HNO3) (1)	[redacted]	S: 8/25/2008	13:28		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	~~806~~ (HNO3) (1)	[redacted]	S: 8/25/2008	13:36		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	~~807~~ (HNO3) (1)	[redacted]	S: 8/25/2008	14:16		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	~~808~~ (HNO3) (1)	[redacted]	S: 8/25/2008	15:15		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	~~809~~ (HNO3) (1)	[redacted]	S: 8/25/2008	16:23		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	~~810~~ (HNO3) (1)	[redacted]	S: 8/25/2008	19:19		--

rec'd 9/17/0[redacted]
ICP-AES

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TAL DM+B+M = TAL Diss Metals+Boron+Moly, TAL Met+B+ = TAL Metals + Boron + Molybdenum, TAL TM+B+M = TAL Total Metals+Boron+Moly

TR Number: [redacted]

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn [redacted]r, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

10342

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: [redacted] R

DAS No:

Region:	3	Date Shipped:	9/2/2008
Project Code:	[redacted]	Carrier Name:	FedEx
Account Code:		Airbill:	961942977974.
CERCLIS ID:	VAN000306614	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900
Spill ID:	ALM		
Site Name/State:	Battlefield Golf/VA		
Project Leader:	[redacted]		
Action:	Preliminary Assessment		
Sampling Co:	Tetra Tech EM Inc.		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1			
2.			
3.			
4.			

Sampler Signature: [redacted]

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/25/2008 19:19		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/25/2008 20:15		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/26/2008 7:46		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/26/2008 8:19		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/26/2008 9:18		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/26/2008 9:15		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	[redacted] (HNO3) (1)	[redacted]	S: 8/26/2008 10:26		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	818 (HNO3) (1)	[redacted]	S: 8/26/2008 10:50		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	819 (HNO3) (1)	[redacted]	S: 8/26/2008 11:33		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	820 (HNO3) (1)	[redacted]	S: 8/26/2008 11:26		--
[redacted]	Potable Well/ [redacted]	M/G	TAL TM+B+M (14)	821 (HNO3) (1)	[redacted]	S: 8/26/2008 11:26		--

Rec'd 9/17/ [redacted]

ICP-AES

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TAL DM+B+M = TAL Diss Metals+Boron+Moly, TAL Met+B+ = TAL Metals + Boron + Molybdenum, TAL TM+B+M = TAL Total Metals+Boron+Moly

TR Number: [redacted]

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: [redacted], CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

Appendix D

Laboratory Case Narrative

USEPA - CLP

COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: [redacted] NRAS No.: 1629.0 SDG No.: [redacted]

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
[redacted]	[redacted]

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [redacted] Name: [redacted]

Date: 9/16/08 Title: EPA PROJECT MANAGER

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # [redacted]
CASE # [redacted]
CONTRACT # EPW06047
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT [redacted]
MODIFIED ANALYSIS: 1629.0

A. Number of Samples and Date of Receipt

20 Water Samples were delivered to the laboratory intact on 09/03/2008.

B. Parameters

Test requested for ICP- AES Metals CLP12= (Al,Ca,Fe,Mg,K,Na)+B+MO & HG.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 4°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

E. Corrective Action taken for above:

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

G. Calculation:

Calculation example for ICP-AES Water Sample:

Results reported in Ug/L = Results in ppm X 1000 X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP Water- Prep

Fraction of Sample Amount Taken in ICP Water- Prep = 100/100 or 50/50 =1
(if 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-AES Water Digestion procedure)

Calculation example for Hg Water Sample:

Results reported in Ug/L = Results in ppb X Dilution Factor (if any) X Fraction of Sample Amount Taken in Water Hg-Prep.

Fraction of Sample Amount Taken in Water Hg-Prep = 100/100 =1
(if 100 ml Initial Volume taken and made it to Final Volume as 100 ml)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Sodium.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature [redacted] Name: [redacted]

Date 9/16/08 Title: Project Manager

Request for Quote (RFQ) for Modified Analysis

Date: August 27, 2008

Subject: Modification Reference Number: 1629.0
Title: ICP-AES Metals with Boron and Molybdenum
Sample Matrix: Water and Soil
Fraction Affected: Metals
Statement of Work: ILM05.4

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Inorganic Statement of Work (SOW) ILM05.4, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW ILM05.4 remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW ILM05.4.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

The contract Laboratory shall analyze aqueous/water and soil/sediment samples for target analytes and the additional analytes Boron (B, CASRN 7440-42-8) and Molybdenum (Mo, CASRN 7439-98-7) by ICP-AES as indicated on the Traffic Report/Chain of Custody Record.

Analyte	Water CRQL (ug/L)	Soil CRQL (mg/kg)	Water Spike level (ug/L)	Soil Spike level (mg/kg)
B	50	5.0	250	25
Mo	5	0.5	25	2.5

The Laboratory must submit Method Detection Limits (MDL) for Boron and Molybdenum that are less than one-half the CRQLs.

The Laboratory shall not use borosilicate glassware to digest the samples for metals analysis or prepare any sample dilutions to avoid contaminating samples with Boron. Polymer digestion vessels shall be used instead.

Post-digestion Spike requirements are per the SOW.

The Laboratory shall add Boron and Molybdenum to the ICV/CCV solutions at appropriate concentrations.

The Laboratory shall add Boron and Molybdenum to the CRI solution at the requested aqueous CRQLs.

The Laboratory shall add Boron and Molybdenum to the LCSW at the levels requested for Matrix Spike if they are not already present in the solution. The Laboratory is not required to add Boron and Molybdenum to the LCSS if they are not already present.

The Laboratory is not required to add Boron and Molybdenum to the ICSA/ICSAB solutions. The Laboratory shall use a true value of zero (0) and acceptance windows of +/- 2 times the CRQL, unless a non-zero value for these analytes has been determined for the solution(s).

The Laboratory shall add Boron and Molybdenum to Forms 1, 2A, 2B, 3, 4A, 5A, (5B), 6, 8, 9, 10A, 11, and 13

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW ILM05.4. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample

Management Office (SMO) at (703) 818-4233 or via email at CCSSUPPORT@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1629.0 on each hardcopy data form under the "NRAS No:" header appearing on each form as well as the "NRAS No." field on the Record type 21 of the electronic deliverable (if diskette deliverable is required). The Laboratory shall also document the Modification Reference Number and Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name:
Laboratory Comments:

parveen

From: [redacted]

Sent: Thursday, September 04, 2008 11:13 AM

To: [redacted]

Cc: slizys dan@epa gov; Harris.Carroll@epamail.epa.gov; thaung.khin-cho@epa gov; kwedar john@epa gov

Subject: Region 03 | Case [redacted] ab CHEM | Issue Multiple | FINAL

Parveen,

Summary Start
-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC lists the analysis TAL TM+B+M for the ground, surface, and potable well water samples; however, the Scheduling Notification Form lists that the analysis is ICP-AES (Al, Ca, Fe, Mg, K, Na)+B+Mo/Hg, ICP-AES TM+B+Mo/Hg, and ICP-MS Metals for water samples. The laboratory is not sure what analyses should be performed on the water samples.
Resolution 1: Per Region 3, the laboratory will perform the following analyses on the water samples. The laboratory will note the issue in the Case/SDG Narrative and proceed with the analysis of the samples.

Matrix	Analysis
Ground Water	ICP-AES TM+B+Mo by MA 1629.0 and Hg
Surface Water	ICP-AES TM+B+Mo by MA 1629.0 and Hg
Potable Well	ICP-AES (Al, Ca, Fe, Mg, K, Na)+B+Mo by MA 1629.0, Hg, and ICP-MS Metals

Issue 2: The laboratory received several water samples that have a container labeled for Dissolved Metals; however, the laboratory is not scheduled to receive any Dissolved Metals samples.
Resolution 2: Per Region 3, the laboratory will perform the following analyses on the Dissolved Metals water samples. The laboratory will note the issue in the Case/SDG Narrative and proceed with the analysis of the samples.

Matrix	Analysis (filtered)
Ground Water	ICP-AES (Al, Ca, Fe, Mg, K, Na)+B+Mo by MA 1629.0, Hg, and ICP-MS Metals
Surface Water	ICP-AES TM+B+Mo by MA 1629.0 and Hg

SMO will note that the laboratory accepted the laboratory's bid price of $[redacted] for ICP-AES 5-10 Metals (plus B and Mo), $[redacted] for ICP-AES 11-22 Metals (plus B and Mo), $[redacted] for ICP-MS 11-16 Metals, and $[redacted] for Mercury for the added Dissolved Metal fraction (bid sheet attached).

-Incorrect/duplicated sample numbers-
Issue 3: The laboratory received water samples that have the same Sample ID for the Total and Dissolved Metals fraction.
Resolution 3: In accordance with previous direction from Region 3, the laboratory will note the issue in the Case/SDG Narrative and proceed with the analysis of the samples using the following instructions: The Total Metals sample will keep the CLP sample ID listed on the TR/COC. The SMO coordinator will assign a new CLP sample ID for the Dissolved/Filtered Metals sample, and notify the Region and the laboratory of the new sample ID.

Total Fraction	Dissolved Fraction
[redacted]	[redacted]

[redacted]

-Laboratory problems-
Issue 4: The laboratory received 2 containers for most of the soil samples received for the Case. The laboratory would like to perform the requested analyses from the 1st container and use the 2nd container as extra volume if needed. Are the laboratory's proposed actions acceptable to the Region?
Resolution 4: Per Region 3, the laboratory's proposed actions are acceptable. The laboratory will note the issue in the Case/SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any further questions or problems.

Thanks,

[redacted]

[redacted]

Computer Sciences Corporation (CSC)

[redacted]

9/4/08, 11:45 AM, Phone conversation between Dan Slizys (Region 3) and [redacted] (SMO). Dan indicated that the laboratory's proposed actions are acceptable for issue 4.

From: [redacted]
Sent: Thursday, September 04, 2008 11:12 AM
To: 'slizys.dan@epa.gov'; Harris.Carroll@epamail.epa.gov
Cc: thaung.khin-cho@epa.gov; kwedar.john@epa.gov
Subject: NEW ISSUE | Case [redacted] Lab CHEM | Issue Multiple |

Dan/Carroll,

CHEM is reporting the following issues for Case [redacted] (TR/COCs attached). Issues 1, 2, and 3 have been resolved. Please advise on issue 4.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC lists the analysis TAL TM+B+M for the ground, surface, and potable well water samples; however, the Scheduling Notification Form lists that the analysis is ICP-AES (Al, Ca, Fe, Mg, K, Na)+B+Mo/Hg, ICP-AES TM+B+Mo/Hg, and ICP-MS Metals for water samples. The laboratory is not sure what analyses should be performed on the water samples.

DATA SUMMARY FORM: INORGANIC

Case #: [redacted]
SDG : [redacted]
Site : BATTLEFIELD GOLF CLUB
Lab. : CHEM

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Field QC :						Dup. of [redacted]		Dup. of [redacted]			
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		15:15		16:23		19:19		19:19		20:15	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	94.4		16.9	B	29.8	B	30.8	J	18.4	B
CALCIUM	5000	73900		42600		225000		223000		50700	
IRON	100	1420		6600		1660		1560		8060	
MAGNESIUM	5000	18000		18400		12700		12700		23200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	7540		2530	J	4630	J	4500	J	2800	J
SODIUM	5000	64400	J	32600	J	127000	J	125000	J	50300	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/26/2008		8/26/2008		8/26/2008		8/26/2008		8/26/2008	
Time Sampled :		07:46		08:19		09:18		09:16		10:26	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200										
BORON	50	363		26.6	B	284		44.2	J	115	
CALCIUM	5000	32000		37400		29400		64200		29500	
IRON	100	192		644		194		4390		133	
MAGNESIUM	5000	28900		5050		27100		20200		13900	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	20600		2670	J	19600		4300	J	8710	
SODIUM	5000	340000	J	16600	J	238000	J	45500	J	65200	J

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: INORGANIC

Case #: [redacted]
Site : BATTLEFIELD GOLF CLUB
Lab. : CHEM

SDG : [redacted]

Number of Soil Samples : 0
Number of Water Samples : 20

Total Metals

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/26/2008		8/26/2008		8/25/2008		8/25/2008	
Time Sampled :		09:59		16:45		16:45		10:43		10:40	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200	21.5	J	22.7	J						
BORON	50	275		290		295		113		116	
CALCIUM	5000	65500		62900		66100		67900		26300	
IRON	100	615		12.6	J	631		1190		180	
MAGNESIUM	5000	42000		43500		44000		18300		12800	
MOLYBDENUM	5										
MERCURY	0.2		UL	0.40			UL		UL		UL
POTASSIUM	5000	23200		24400		24900		8760		9450	
SODIUM	5000	222000	J	247000	J	247000	J	69300	J	51800	J

Sample Number :		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]	
Sampling Location :											
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		8/25/2008		8/25/2008		8/25/2008		8/25/2008		8/25/2008	
Time Sampled :		11:24		11:31		13:28		13:36		14:16	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
ANALYTE	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	200			20.7	J			23.7	J	93.6	J
BORON	50	114		29.1	B	107		124		54.9	
CALCIUM	5000	26100		15600		39500		41700		71600	
IRON	100	175		12900		1980		1760		2830	
MAGNESIUM	5000	12800		6670		19300		19800		17200	
MOLYBDENUM	5										
MERCURY	0.2		UL		UL		UL		UL		UL
POTASSIUM	5000	9480		2970	J	10500		11100		4810	J
SODIUM	5000	51200	J	10100	J	68700	J	76700	J	49800	J

CRQL = Contract Required Quantitation Limit *Action Level Exists

To calculate sample quantitation limits: (CRQL * Dilution Factor)

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

SAMPLE_	CHEMICA	CAS_RN	FRACTIOI	VALUE_T	STAT	DUR/	TEN	RESULT_	RESULT_	CON	CON
[redacted]	ALUMINU	[redacted]		ACTUAL				21.5	UG/L		
[redacted]	ANTIMON	[redacted]		ACTUAL					UG/L		
[redacted]	ARSENIC	[redacted]		ACTUAL					UG/L		
[redacted]	BARIUM	[redacted]		ACTUAL					UG/L		
[redacted]	BERYLLIU	[redacted]		ACTUAL					UG/L		
[redacted]	CADMIUM	[redacted]		ACTUAL					UG/L		
[redacted]	CALCIUM	[redacted]		ACTUAL				65500	UG/L		
[redacted]	CHROMIU	[redacted]		ACTUAL					UG/L		
[redacted]	COBALT	[redacted]		ACTUAL					UG/L		
[redacted]	COPPER	[redacted]		ACTUAL					UG/L		
[redacted]	IRON	[redacted]		ACTUAL				615	UG/L		
[redacted]	LEAD	[redacted]		ACTUAL					UG/L		
[redacted]	MAGNESI	[redacted]		ACTUAL				42000	UG/L		
[redacted]	MANGANI	[redacted]		ACTUAL					UG/L		
[redacted]	MERCUR'	[redacted]		ACTUAL				0.2	UG/L		
[redacted]	NICKEL	[redacted]		ACTUAL					UG/L		
[redacted]	POTASSIU	[redacted]		ACTUAL				23200	UG/L		
[redacted]	SELENIUM	[redacted]		ACTUAL					UG/L		
[redacted]	SILVER	[redacted]		ACTUAL					UG/L		
[redacted]	SODIUM	[redacted]		ACTUAL				222000	UG/L		
[redacted]	THALLIUM	[redacted]		ACTUAL					UG/L		
[redacted]	VANADIUI	[redacted]		ACTUAL					UG/L		
[redacted]	ZINC	[redacted]		ACTUAL					UG/L		
[redacted]	MOLYBDE	[redacted]		ACTUAL				5	UG/L		
[redacted]	BORON	[redacted]		ACTUAL				275	UG/L		
[redacted]	ALUMINU	[redacted]		ACTUAL				22.7	UG/L		
[redacted]	ANTIMON	[redacted]		ACTUAL					UG/L		
[redacted]	ARSENIC	[redacted]		ACTUAL					UG/L		
[redacted]	BARIUM	[redacted]		ACTUAL					UG/L		
[redacted]	BERYLLIU	[redacted]		ACTUAL					UG/L		
[redacted]	CADMIUM	[redacted]		ACTUAL					UG/L		
[redacted]	CALCIUM	[redacted]		ACTUAL				62900	UG/L		
[redacted]	CHROMIU	[redacted]		ACTUAL					UG/L		
[redacted]	COBALT	[redacted]		ACTUAL					UG/L		
[redacted]	COPPER	[redacted]		ACTUAL					UG/L		
[redacted]	IRON	[redacted]		ACTUAL				12.6	UG/L		
[redacted]	LEAD	[redacted]		ACTUAL					UG/L		
[redacted]	MAGNESI	[redacted]		ACTUAL				43500	UG/L		
[redacted]	MANGANI	[redacted]		ACTUAL					UG/L		
[redacted]	MERCUR	[redacted]		ACTUAL				0.4	UG/L		
[redacted]	NICKEL	[redacted]		ACTUAL					UG/L		
[redacted]	POTASSIU	[redacted]		ACTUAL				24400	UG/L		
[redacted]	SELENIUM	[redacted]		ACTUAL					UG/L		
[redacted]	SILVER	[redacted]		ACTUAL					UG/L		
[redacted]	SODIUM	[redacted]		ACTUAL				247000	UG/L		
[redacted]	THALLIUM	[redacted]		ACTUAL					UG/L		
[redacted]	VANADIUI	[redacted]		ACTUAL					UG/L		
[redacted]	ZINC	[redacted]		ACTUAL					UG/L		
[redacted]	MOLYBDE	[redacted]		ACTUAL				5	UG/L		
[redacted]	BORON	[redacted]		ACTUAL				290	UG/L		
[redacted]	LUMINU	[redacted]		ACTUAL				200	UG/L		

ANTIMON	ACTUAL		UG/L
ARSENIC	ACTUAL		UG/L
BARIUM	ACTUAL		UG/L
BERYLLIU	ACTUAL		UG/L
CADMIUM	ACTUAL		UG/L
CALCIUM	ACTUAL	66100	UG/L
CHROMIU	ACTUAL		UG/L
COBALT	ACTUAL		UG/L
COPPER	ACTUAL		UG/L
IRON	ACTUAL	631	UG/L
LEAD	ACTUAL		UG/L
MAGNESI	ACTUAL	44000	UG/L
MANGANI	ACTUAL		UG/L
MERCUR	ACTUAL	0.2	UG/L
NICKEL	ACTUAL		UG/L
POTASSIU	ACTUAL	24900	UG/L
SELENIUM	ACTUAL		UG/L
SILVER	ACTUAL		UG/L
SODIUM	ACTUAL	247000	UG/L
THALLIUM	ACTUAL		UG/L
VANADIUM	ACTUAL		UG/L
ZINC	ACTUAL		UG/L
MOLYBDE	ACTUAL	5	UG/L
BORON	ACTUAL	295	UG/L
ALUMINU	ACTUAL	200	UG/L
ANTIMON	ACTUAL		UG/L
ARSENIC	ACTUAL		UG/L
BARIUM	ACTUAL		UG/L
BERYLLIU	ACTUAL		UG/L
CADMIUM	ACTUAL		UG/L
CALCIUM	ACTUAL	67900	UG/L
CHROMIU	ACTUAL		UG/L
COBALT	ACTUAL		UG/L
COPPER	ACTUAL		UG/L
IRON	ACTUAL	1190	UG/L
LEAD	ACTUAL		UG/L
MAGNESI	ACTUAL	18300	UG/L
MANGANI	ACTUAL		UG/L
MERCUR	ACTUAL	0.2	UG/L
NICKEL	ACTUAL		UG/L
POTASSIU	ACTUAL	8760	UG/L
SELENIUM	ACTUAL		UG/L
SILVER	ACTUAL		UG/L
SODIUM	ACTUAL	69300	UG/L
THALLIUM	ACTUAL		UG/L
VANADIUM	ACTUAL		UG/L
ZINC	ACTUAL		UG/L
MOLYBDE	ACTUAL	5	UG/L
BORON	ACTUAL	113	UG/L
ALUMINU	ACTUAL	200	UG/L
ANTIMON	ACTUAL		UG/L
ARSENIC	ACTUAL		UG/L

[redacted]	BARIUM	[redacted]	ACTUAL	UG/L
[redacted]	BERYLLIU	[redacted]	ACTUAL	UG/L
[redacted]	CADMIUM	[redacted]	ACTUAL	UG/L
[redacted]	CALCIUM	[redacted]	ACTUAL	26300 UG/L
[redacted]	CHROMIU	[redacted]	ACTUAL	UG/L
[redacted]	COBALT	[redacted]	ACTUAL	UG/L
[redacted]	COPPER	[redacted]	ACTUAL	UG/L
[redacted]	IRON	[redacted]	ACTUAL	180 UG/L
[redacted]	LEAD	[redacted]	ACTUAL	UG/L
[redacted]	MAGNESI	[redacted]	ACTUAL	12800 UG/L
[redacted]	MANGANI	[redacted]	ACTUAL	UG/L
[redacted]	MERCUR'	[redacted]	ACTUAL	0.2 UG/L
[redacted]	NICKEL	[redacted]	ACTUAL	UG/L
[redacted]	POTASSIU	[redacted]	ACTUAL	9450 UG/L
[redacted]	SELENIUM	[redacted]	ACTUAL	UG/L
[redacted]	SILVER	[redacted]	ACTUAL	UG/L
[redacted]	SODIUM	[redacted]	ACTUAL	51800 UG/L
[redacted]	THALLIUM	[redacted]	ACTUAL	UG/L
[redacted]	VANADIUI	[redacted]	ACTUAL	UG/L
[redacted]	ZINC	[redacted]	ACTUAL	UG/L
[redacted]	MOLYBDE	[redacted]	ACTUAL	5 UG/L
[redacted]	BORON	[redacted]	ACTUAL	116 UG/L
[redacted]	ALUMINU	[redacted]	ACTUAL	200 UG/L
[redacted]	ANTIMON	[redacted]	ACTUAL	UG/L
[redacted]	ARSENIC	[redacted]	ACTUAL	UG/L
[redacted]	BARIUM	[redacted]	ACTUAL	UG/L
[redacted]	BERYLLIU	[redacted]	ACTUAL	UG/L
[redacted]	CADMIUM	[redacted]	ACTUAL	UG/L
[redacted]	CALCIUM	[redacted]	ACTUAL	26100 UG/L
[redacted]	CHROMIU	[redacted]	ACTUAL	UG/L
[redacted]	COBALT	[redacted]	ACTUAL	UG/L
[redacted]	COPPER	[redacted]	ACTUAL	UG/L
[redacted]	IRON	[redacted]	ACTUAL	175 UG/L
[redacted]	LEAD	[redacted]	ACTUAL	UG/L
[redacted]	MAGNESI	[redacted]	ACTUAL	12800 UG/L
[redacted]	MANGANI	[redacted]	ACTUAL	UG/L
[redacted]	MERCUR'	[redacted]	ACTUAL	0.2 UG/L
[redacted]	NICKEL	[redacted]	ACTUAL	UG/L
[redacted]	POTASSIU	[redacted]	ACTUAL	9480 UG/L
[redacted]	SELENIUM	[redacted]	ACTUAL	UG/L
[redacted]	SILVER	[redacted]	ACTUAL	UG/L
[redacted]	SODIUM	[redacted]	ACTUAL	51200 UG/L
[redacted]	THALLIUM	[redacted]	ACTUAL	UG/L
[redacted]	VANADIUI	[redacted]	ACTUAL	UG/L
[redacted]	ZINC	[redacted]	ACTUAL	UG/L
[redacted]	MOLYBDE	[redacted]	ACTUAL	5 UG/L
[redacted]	BORON	[redacted]	ACTUAL	114 UG/L
[redacted]	ALUMINU	[redacted]	ACTUAL	20.7 UG/L
[redacted]	ANTIMON	[redacted]	ACTUAL	UG/L
[redacted]	ARSENIC	[redacted]	ACTUAL	UG/L
[redacted]	BARIUM	[redacted]	ACTUAL	UG/L
[redacted]	BERYLLIU	[redacted]	ACTUAL	UG/L

CADMIUM	ACTUAL		UG/L
CALCIUM	ACTUAL	15600	UG/L
CHROMIU	ACTUAL		UG/L
COBALT	ACTUAL		UG/L
COPPER	ACTUAL		UG/L
IRON	ACTUAL	12900	UG/L
LEAD	ACTUAL		UG/L
MAGNESI	ACTUAL	6670	UG/L
MANGANI	ACTUAL		UG/L
MERCUR'	ACTUAL	0.2	UG/L
NICKEL	ACTUAL		UG/L
POTASSII	ACTUAL	2970	UG/L
SELENIUI	ACTUAL		UG/L
SILVER	ACTUAL		UG/L
SODIUM	ACTUAL	10100	UG/L
THALLIUI	ACTUAL		UG/L
VANADIUI	ACTUAL		UG/L
ZINC	ACTUAL		UG/L
MOLYBDE	ACTUAL	5	UG/L
BORON	ACTUAL	29.1	UG/L
ALUMINU	ACTUAL	200	UG/L
ANTIMON	ACTUAL		UG/L
ARSENIC	ACTUAL		UG/L
BARIUM	ACTUAL		UG/L
BERYLLIU	ACTUAL		UG/L
CADMIUM	ACTUAL		UG/L
CALCIUM	ACTUAL	39500	UG/L
CHROMIU	ACTUAL		UG/L
COBALT	ACTUAL		UG/L
COPPER	ACTUAL		UG/L
IRON	ACTUAL	1980	UG/L
LEAD	ACTUAL		UG/L
MAGNESI	ACTUAL	19300	UG/L
MANGANI	ACTUAL		UG/L
MERCUR'	ACTUAL	0.2	UG/L
NICKEL	ACTUAL		UG/L
POTASSII	ACTUAL	10500	UG/L
SELENIUI	ACTUAL		UG/L
SILVER	ACTUAL		UG/L
SODIUM	ACTUAL	68700	UG/L
THALLIUI	ACTUAL		UG/L
VANADIUI	ACTUAL		UG/L
ZINC	ACTUAL		UG/L
MOLYBDE	ACTUAL	5	UG/L
BORON	ACTUAL	107	UG/L
ALUMINU	ACTUAL	23.7	UG/L
ANTIMON	ACTUAL		UG/L
ARSENIC	ACTUAL		UG/L
BARIUM	ACTUAL		UG/L
BERYLLIU	ACTUAL		UG/L
CADMIUM	ACTUAL		UG/L
CALCIUM	ACTUAL	41700	UG/L

[redacted]	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L
	COPPER	ACTUAL		UG/L
	IRON	ACTUAL	1760	UG/L
	LEAD	ACTUAL		UG/L
	MAGNESI	ACTUAL	19800	UG/L
	MANGANI	ACTUAL		UG/L
	MERCUR'	ACTUAL	0.2	UG/L
	NICKEL	ACTUAL		UG/L
	POTASSIU	ACTUAL	11100	UG/L
	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	76700	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	124	UG/L
	ALUMINU	ACTUAL	93.6	UG/L
	ANTIMON	ACTUAL		UG/L
	ARSENIC	ACTUAL		UG/L
	BARIUM	ACTUAL		UG/L
	BERYLLIU	ACTUAL		UG/L
	CADMIUM	ACTUAL		UG/L
	CALCIUM	ACTUAL	71600	UG/L
	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L
	COPPER	ACTUAL		UG/L
	IRON	ACTUAL	2830	UG/L
	LEAD	ACTUAL		UG/L
	MAGNESI	ACTUAL	17200	UG/L
	MANGANI	ACTUAL		UG/L
	MERCUR'	ACTUAL	0.2	UG/L
	NICKEL	ACTUAL		UG/L
	POTASSIU	ACTUAL	4810	UG/L
	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	49800	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	54.9	UG/L
	ALUMINU	ACTUAL	200	UG/L
	ANTIMON	ACTUAL		UG/L
	ARSENIC	ACTUAL		UG/L
	BARIUM	ACTUAL		UG/L
	BERYLLIU	ACTUAL		UG/L
	CADMIUM	ACTUAL		UG/L
	CALCIUM	ACTUAL	73900	UG/L
	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L

[redacted]	COPPER	ACTUAL		UG/L
[redacted]	IRON	ACTUAL	1420	UG/L
[redacted]	LEAD	ACTUAL		UG/L
[redacted]	MAGNESI	ACTUAL	18000	UG/L
[redacted]	MANGANI	ACTUAL		UG/L
[redacted]	MERCUR'	ACTUAL	0.2	UG/L
[redacted]	NICKEL	ACTUAL		UG/L
[redacted]	POTASSII	ACTUAL	7540	UG/L
[redacted]	SELENIUI	ACTUAL		UG/L
[redacted]	SILVER	ACTUAL		UG/L
[redacted]	SODIUM	ACTUAL	64400	UG/L
[redacted]	THALLIUI	ACTUAL		UG/L
[redacted]	VANADIUI	ACTUAL		UG/L
[redacted]	ZINC	ACTUAL		UG/L
[redacted]	MOLYBDE	ACTUAL	5	UG/L
[redacted]	BORON	ACTUAL	94.4	UG/L
[redacted]	ALUMINU	ACTUAL	200	UG/L
[redacted]	ANTIMON	ACTUAL		UG/L
[redacted]	ARSENIC	ACTUAL		UG/L
[redacted]	BARIUM	ACTUAL		UG/L
[redacted]	BERYLLIU	ACTUAL		UG/L
[redacted]	CADMIUM	ACTUAL		UG/L
[redacted]	CALCIUM	ACTUAL	42600	UG/L
[redacted]	CHROMIU	ACTUAL		UG/L
[redacted]	COBALT	ACTUAL		UG/L
[redacted]	COPPER	ACTUAL		UG/L
[redacted]	IRON	ACTUAL	6600	UG/L
[redacted]	LEAD	ACTUAL		UG/L
[redacted]	MAGNESI	ACTUAL	18400	UG/L
[redacted]	MANGANI	ACTUAL		UG/L
[redacted]	MERCUR'	ACTUAL	0.2	UG/L
[redacted]	NICKEL	ACTUAL		UG/L
[redacted]	POTASSII	ACTUAL	2530	UG/L
[redacted]	SELENIUI	ACTUAL		UG/L
[redacted]	SILVER	ACTUAL		UG/L
[redacted]	SODIUM	ACTUAL	32600	UG/L
[redacted]	THALLIUI	ACTUAL		UG/L
[redacted]	VANADIUI	ACTUAL		UG/L
[redacted]	ZINC	ACTUAL		UG/L
[redacted]	MOLYBDE	ACTUAL	5	UG/L
[redacted]	BORON	ACTUAL	16.9	UG/L
[redacted]	ALUMINU	ACTUAL	200	UG/L
[redacted]	ANTIMON	ACTUAL		UG/L
[redacted]	ARSENIC	ACTUAL		UG/L
[redacted]	BARIUM	ACTUAL		UG/L
[redacted]	BERYLLIU	ACTUAL		UG/L
[redacted]	CADMIUM	ACTUAL		UG/L
[redacted]	CALCIUM	ACTUAL	225000	UG/L
[redacted]	CHROMIU	ACTUAL		UG/L
[redacted]	COBALT	ACTUAL		UG/L
[redacted]	COPPER	ACTUAL		UG/L
[redacted]	IRON	ACTUAL	1660	UG/L

[redacted]	LEAD	[redacted]	ACTUAL	UG/L
	MAGNESI		ACTUAL	12700 UG/L
	MANGANI		ACTUAL	UG/L
	MERCUR'		ACTUAL	0.2 UG/L
	NICKEL		ACTUAL	UG/L
	POTASSII		ACTUAL	4630 UG/L
	SELENIUI		ACTUAL	UG/L
	SILVER		ACTUAL	UG/L
	SODIUM		ACTUAL	127000 UG/L
	THALLIUI		ACTUAL	UG/L
	VANADIUI		ACTUAL	UG/L
	ZINC		ACTUAL	UG/L
	MOLYBDE		ACTUAL	5 UG/L
	BORON		ACTUAL	29.8 UG/L
	ALUMINU		ACTUAL	200 UG/L
	ANTIMON		ACTUAL	UG/L
	ARSENIC		ACTUAL	UG/L
	BARIUM		ACTUAL	UG/L
	BERYLLIU		ACTUAL	UG/L
	CADMIUM		ACTUAL	UG/L
	CALCIUM		ACTUAL	223000 UG/L
	CHROMIU		ACTUAL	UG/L
	COBALT		ACTUAL	UG/L
	COPPER		ACTUAL	UG/L
	IRON		ACTUAL	1560 UG/L
	LEAD		ACTUAL	UG/L
	MAGNESI		ACTUAL	12700 UG/L
	MANGANI		ACTUAL	UG/L
	MERCUR'		ACTUAL	0.2 UG/L
	NICKEL		ACTUAL	UG/L
	POTASSII		ACTUAL	4500 UG/L
	SELENIUI		ACTUAL	UG/L
	SILVER		ACTUAL	UG/L
	SODIUM		ACTUAL	125000 UG/L
	THALLIUI		ACTUAL	UG/L
	VANADIUI		ACTUAL	UG/L
	ZINC		ACTUAL	UG/L
	MOLYBDE		ACTUAL	5 UG/L
	BORON		ACTUAL	30.8 UG/L
	ALUMINU		ACTUAL	200 UG/L
	ANTIMON		ACTUAL	UG/L
	ARSENIC		ACTUAL	UG/L
	BARIUM		ACTUAL	UG/L
	BERYLLIU		ACTUAL	UG/L
	CADMIUM		ACTUAL	UG/L
	CALCIUM		ACTUAL	50700 UG/L
	CHROMIU		ACTUAL	UG/L
	COBALT		ACTUAL	UG/L
	COPPER		ACTUAL	UG/L
	IRON		ACTUAL	8060 UG/L
	LEAD		ACTUAL	UG/L
	MAGNESI		ACTUAL	23200 UG/L

[redacted]	MANGANI	ACTUAL		UG/L
	MERCUR	ACTUAL	0.2	UG/L
	NICKEL	ACTUAL		UG/L
	POTASSII	ACTUAL	2800	UG/L
	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	50300	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	18.4	UG/L
	ALUMINU	ACTUAL	200	UG/L
	ANTIMON	ACTUAL		UG/L
	ARSENIC	ACTUAL		UG/L
	BARIUM	ACTUAL		UG/L
	BERYLLIU	ACTUAL		UG/L
	CADMIUM	ACTUAL		UG/L
	CALCIUM	ACTUAL	32000	UG/L
	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L
	COPPER	ACTUAL		UG/L
	IRON	ACTUAL	192	UG/L
	LEAD	ACTUAL		UG/L
	MAGNESI	ACTUAL	28900	UG/L
[redacted]	MANGANI	ACTUAL		UG/L
	MERCUR	ACTUAL	0.2	UG/L
	NICKEL	ACTUAL		UG/L
	POTASSII	ACTUAL	20600	UG/L
	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	340000	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	363	UG/L
	ALUMINU	ACTUAL	200	UG/L
	ANTIMON	ACTUAL		UG/L
	ARSENIC	ACTUAL		UG/L
	BARIUM	ACTUAL		UG/L
	BERYLLIU	ACTUAL		UG/L
	CADMIUM	ACTUAL		UG/L
	CALCIUM	ACTUAL	37400	UG/L
	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L
	COPPER	ACTUAL		UG/L
	IRON	ACTUAL	644	UG/L
	LEAD	ACTUAL		UG/L
	MAGNESI	ACTUAL	5050	UG/L
	MANGANI	ACTUAL		UG/L
	MERCUR	ACTUAL	0.2	UG/L

[redacted]	NICKEL	[redacted]	ACTUAL	UG/L
	POTASSII		ACTUAL	2670 UG/L
	SELENIUI		ACTUAL	UG/L
	SILVER		ACTUAL	UG/L
	SODIUM		ACTUAL	16600 UG/L
	THALLIUI		ACTUAL	UG/L
	VANADIUI		ACTUAL	UG/L
	ZINC		ACTUAL	UG/L
	MOLYBDE		ACTUAL	5 UG/L
	BORON		ACTUAL	26.6 UG/L
	ALUMINU		ACTUAL	200 UG/L
	ANTIMON		ACTUAL	UG/L
	ARSENIC		ACTUAL	UG/L
	BARIUM		ACTUAL	UG/L
	BERYLLIU		ACTUAL	UG/L
	CADMIUM		ACTUAL	UG/L
	CALCIUM		ACTUAL	29400 UG/L
	CHROMIU		ACTUAL	UG/L
	COBALT		ACTUAL	UG/L
	COPPER		ACTUAL	UG/L
	IRON		ACTUAL	194 UG/L
	LEAD		ACTUAL	UG/L
	MAGNESI		ACTUAL	27100 UG/L
	MANGANI		ACTUAL	UG/L
	MERCUR'		ACTUAL	0.2 UG/L
	NICKEL		ACTUAL	UG/L
	POTASSII		ACTUAL	19600 UG/L
	SELENIUI		ACTUAL	UG/L
	SILVER		ACTUAL	UG/L
	SODIUM		ACTUAL	238000 UG/L
	THALLIUI		ACTUAL	UG/L
	VANADIUI		ACTUAL	UG/L
	ZINC		ACTUAL	UG/L
	MOLYBDE		ACTUAL	5 UG/L
	BORON		ACTUAL	284 UG/L
	ALUMINU		ACTUAL	200 UG/L
	ANTIMON		ACTUAL	UG/L
	ARSENIC		ACTUAL	UG/L
	BARIUM		ACTUAL	UG/L
	BERYLLIU		ACTUAL	UG/L
	CADMIUM		ACTUAL	UG/L
	CALCIUM		ACTUAL	64200 UG/L
	CHROMIU		ACTUAL	UG/L
	COBALT		ACTUAL	UG/L
	COPPER		ACTUAL	UG/L
	IRON		ACTUAL	4390 UG/L
	LEAD		ACTUAL	UG/L
	MAGNESI		ACTUAL	20200 UG/L
	MANGANI		ACTUAL	UG/L
	MERCUR'		ACTUAL	0.2 UG/L
	NICKEL		ACTUAL	UG/L
	POTASSII		ACTUAL	4300 UG/L

[redacted]	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	45500	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	44.2	UG/L
	ALUMINU	ACTUAL	200	UG/L
	ANTIMON	ACTUAL		UG/L
	ARSENIC	ACTUAL		UG/L
	BARIUM	ACTUAL		UG/L
	BERYLLIU	ACTUAL		UG/L
	CADMIUM	ACTUAL		UG/L
	CALCIUM	ACTUAL	29500	UG/L
	CHROMIU	ACTUAL		UG/L
	COBALT	ACTUAL		UG/L
	COPPER	ACTUAL		UG/L
	IRON	ACTUAL	133	UG/L
	LEAD	ACTUAL		UG/L
	MAGNESI	ACTUAL	13900	UG/L
	MANGANI	ACTUAL		UG/L
	MERCUR	ACTUAL	0.2	UG/L
	NICKEL	ACTUAL		UG/L
	POTASSIU	ACTUAL	8710	UG/L
	SELENIUI	ACTUAL		UG/L
	SILVER	ACTUAL		UG/L
	SODIUM	ACTUAL	65200	UG/L
	THALLIUI	ACTUAL		UG/L
	VANADIUI	ACTUAL		UG/L
	ZINC	ACTUAL		UG/L
	MOLYBDE	ACTUAL	5	UG/L
	BORON	ACTUAL	115	UG/L

CON	CON	TEMP	CHEM_PF	LAB_ANL	ANALYSIS	ANALYSIS	TEST_TYI	LAB_MAT	ANALYSIS	WET_OR
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	CV	09/11/200	16:13		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7	09/14/200	7:47		W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	CV	09/11/200	16:15		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7				W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7	09/14/200	7:49		W	LB	WET
			HNO3	C200.7	09/14/200	7:51		W	LB	WET