

Table E-1
Data Validation Qualifiers

Upgradient Investigation, Tronox Facility, Henderson, Nevada

Validation Qualifier	Definition
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity and the result may be biased high. This qualifier is applied only to inorganic analyte results.
J-	The result is an estimated quantity and the result may be biased low. This qualifier is applied only to inorganic analyte results.
UJ	The analyte was not detected above the sample reporting limit and the reporting limit is approximate.
U	The analyte was analyzed for, but was not detected above the sample reporting limit
R	The result is rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
B	The result may be a false positive totally attributable to blank contamination. This qualifier is applied only to radiochemical results.
JB	The result may be biased high and partially attributable to blank contamination. This qualifier is applied only to radiochemical results.
Z	The result is a probable false positive due to cross-contamination during shipping.

Table E-2
Data Validation Qualifier Reason Codes
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Code	Explanation
j-b	estimated due to blank contamination
j-bl	estimated due to lab blank contamination
j-be	estimated due to equipment blank contamination
j-d	estimated due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
j-f	estimated due to field duplicate imprecision
j-s	estimated due to surrogate recoveries
j-m	estimated due to matrix spike recoveries
j-h	estimated due to holding time exceedance
j-l	estimated due to LCS recoveries
j-c	estimated due to calibration problems
j-x	estimated due to low % solids
j-y	estimated due to serial dilution results
j-i	estimated due to internal standard areas
j-z	estimated due to ICS results
j-r	estimated due to quantitation problem
u-be	negated due to equipment blank contamination
u-bl	negated due to lab blank contamination
u-q	nondetected level changed due to quantitation problem
uj-a	estimated nondetect due to low abundance (radiochemical activity)
uj-b	estimated nondetect due to negative blank contamination (nondetect results only)
uj-bl	estimated nondetect due to negative lab blank contamination (nondetect results only)
uj-be	estimated nondetect due to negative equipment blank contamination (nondetect results only)
uj-cp	estimated nondetect due to insufficient ingrowth (radiochemical only)
uj-d	estimated nondetect due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
uj-f	estimated nondetect due to field duplicate imprecision
uj-s	estimated nondetect due to surrogate recoveries
uj-m	estimated nondetect due to matrix spike recoveries
uj-h	estimated nondetect due to holding time exceedance
uj-l	estimated nondetect due to LCS recoveries
uj-c	estimated nondetect due to calibration issues
uj-x	estimated nondetect due to low % solids
uj-z	estimated nondetect due to ICS results
uj-i	estimated nondetect due to internal standard areas
uj-q	estimated nondetect level changed due to quantitation problem
r-s	rejected due to surrogate recoveries
r-m	rejected due to matrix spike recoveries
r-h	rejected due to holding time exceedance
r-l	rejected due to LCS recoveries
r-c	rejected due to calibration
r-p	rejected as a false positive due to contamination during shipping
z-p	qualified as a probable false positive due to contamination during shipping

u-b negated due to blank contamination

Table E-3
Sample IDs and Sample Delivery Groups by Laboratory
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample_ID	Matrix	Collection Date	Validation	MWH	EMAX	GEL	STL	FGS	EMS
EB-1	WATER	3/9/2006 14:00	Limited	169405	06C096	158277			
EB-2	WATER	3/14/2006 12:15	Limited	169653					
EB-2	WATER	3/14/2006 12:15	Limited		06C127				
EB-3	WATER	3/24/2006 12:00	Limited	170393	06C239	159244			
FB-1	WATER	3/8/2006 15:30	Limited	169286		158276			
FB-1	WATER	3/8/2006 15:30	Limited		06C081				
H-11	WATER	3/23/2006 15:20	Limited	170342	06C222	159242			
M-103	WATER	3/21/2006 14:00	Limited	170190	06C193	158971			
M-103	WATER	3/23/2006 13:30	Limited	170342					
M-103A	WATER	3/20/2006 15:00	Limited	170033	06C199	158783			
M116-0.5	SOIL	3/12/2006 11:55	Limited			158438			
M116-0.5	SOIL	3/12/2006 11:55	Limited		06C120				
M116-0.5D	SOIL	3/12/2006 0:00	Limited			158438			
M116-0.5D	SOIL	3/12/2006 0:00	Limited		06C120				
M116-0.5R	SOIL	3/24/2006 12:27	Limited		06C238				
M116-10	SOIL	3/12/2006 12:15	Limited		06C120				
M116-10 MS	SOIL	3/12/2006 12:15	Limited		06C120				
M116-10 MSD	SOIL	3/12/2006 12:15	Limited		06C120				
M116-20	SOIL	3/12/2006 12:35	Limited		06C120				
M116-30	SOIL	3/12/2006 12:52	Limited		06C120				
M116-40	SOIL	3/12/2006 13:09	Limited		06C120				
M116-5	SOIL	3/12/2006 12:05	Limited			158438			
M116-5	SOIL	3/12/2006 12:05	Limited		06C120				
M116-50	SOIL	3/12/2006 13:31	Limited		06C120				
M-117	WATER	3/23/2006 14:50	Limited	170342	06C222	159242			
M117 30	SOIL	3/11/2006 8:37	Limited		06C120				
M117-0.5	SOIL	3/11/2006 7:38	Limited			158438			
M117-0.5	SOIL	3/12/2006 7:38	Limited		06C120				
M117-0.5R	SOIL	3/24/2006 12:12	Limited		06C238				
M117-10	SOIL	3/11/2006 7:55	Limited			158438			
M117-10	SOIL	3/11/2006 7:55	Limited		06C120				
M117-20	SOIL	3/11/2006 8:08	Limited		06C120				
M117-20D	SOIL	3/11/2006 0:00	Limited		06C120				
M117-40	SOIL	3/11/2006 8:54	Limited		06C120				
M117-5	SOIL	3/11/2006 7:48	Limited			158438			
M117-5	SOIL	3/11/2006 7:48	Limited		06C120				

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Sample_ID	Matrix	Collection Date	Validation	MWH	EMAX	GEL	STL	FGS	EMS
M117-50	SOIL	3/11/2006 9:25	Limited		06C120				
M117-60	SOIL	3/11/2006 9:50	Limited		06C120				
M117-80	SOIL	3/11/2006 10:34	Limited		06C120				
M117-80D	SOIL	3/11/2006 0:00	Limited		06C120				
M-118	WATER	3/22/2006 14:30	Limited	170259	06C204	159243			
M118-0.5	SOIL	3/8/2006 11:10	Limited			158270			
M118-0.5	SOIL	3/8/2006 11:10	Limited		06C081				
M118-0.5R	SOIL	3/24/2006 9:45	Limited		06C238				
M118-10	SOIL	3/8/2006 11:50	Limited			158270			
M118-10	SOIL	3/8/2006 11:50	Limited		06C081				
M118-20	SOIL	3/8/2006 12:15	Limited		06C081				
M118-20D	SOIL	3/8/2006 0:00	Limited		06C081				
M118-30	SOIL	3/8/2006 13:05	Limited		06C081				
M118-40	SOIL	3/8/2006 13:30	Limited		06C081				
M118-5	SOIL	3/8/2006 11:20	Limited			158270			
M118-5	SOIL	3/8/2006 11:20	Limited		06C081				
M118-50	SOIL	3/8/2006 13:55	Limited		06C081				
M118-50 MS	SOIL	3/8/2006 0:00	Limited		06C081				
M118-50 MSD	SOIL	3/8/2006 0:00	Limited		06C081				
M118-60	SOIL	3/8/2006 14:15	Limited		06C081				
M118-80	SOIL	3/8/2006 15:12	Limited		06C081				
M119-0.5	SOIL	3/14/2006 7:30	Limited			158437			
M119-0.5	SOIL	3/14/2006 7:30	Limited		06C127				
M119-0.5D	SOIL	3/14/2006 0:00	Limited			158437			
M119-0.5D	SOIL	3/14/2006 0:00	Limited		06C127				
M119-10	SOIL	3/14/2006 7:39	Limited		06C127				
M119-20	SOIL	3/14/2006 7:54	Limited		06C127				
M119-32	SOIL	3/14/2006 8:30	Limited		06C127				
M119-40	SOIL	3/14/2006 8:40	Limited		06C127				
M119-5	SOIL	3/14/2006 7:35	Limited			158437			
M119-5	SOIL	3/14/2006 7:35	Limited		06C127				
M119-50	SOIL	3/14/2006 9:00	Limited			158437			
M119-50	SOIL	3/14/2006 9:00	Limited		06C127				
M-120	WATER	5/3/2006 0:00	Full				G6E120362		
M-120	WATER	3/22/2006 10:20	Full	170226	06C204	159247			

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Sample_ID	Matrix	Collection Date	Validation	MWH	EMAX	GEL	STL	FGS	EMS
M-120	WATER	3/22/2006 15:00	Full	170226					
M-120	WATER	3/22/2006 15:15	Full	170226				170226	
M120-0.5	SOIL	3/7/2006 9:10	Full			158048	G6C100424	169215	169215
M120-0.5	SOIL	3/7/2006 9:10	Full		06C071				
M120-0.5R	SOIL	3/24/2006 9:10	Limited		06C238				
M120-10	SOIL	3/7/2006 10:10	Full			158048	G6C100424	169215	169215
M120-10	SOIL	3/7/2006 10:10	Full		06C071				
M120-20	SOIL	3/7/2006 10:45	Full		06C071				
M120-30	SOIL	3/7/2006 11:45	Full			158048	G6C100424	169215	169215
M120-30	SOIL	3/7/2006 11:45	Full		06C071				
M120-40	SOIL	3/7/2006 12:15	Full		06C071				
M120-40D	SOIL	3/7/2006 0:00	Full		06C071				
M120-5	SOIL	3/7/2006 9:30	Full			158048			
M120-5	SOIL	3/7/2006 9:30	Full		06C071				
M120-50	SOIL	3/7/2006 12:45	Full			158048			
M120-50	SOIL	3/7/2006 12:45	Full		06C071				
M120-50 MS	SOIL	3/7/2006 12:45	Full		06C071				
M120-50 MSD	SOIL	3/7/2006 12:45	Full		06C071				
M120-60	SOIL	3/7/2006 13:50	Full		06C071				
M120-80	SOIL	3/7/2006 14:56	Full		06C071				
M-121	WATER	3/23/2006 8:30	Limited	170342	06C222	159242			
M-121	WATER	3/23/2006 14:00	Limited	170342					
M-121 MS	WATER	3/23/2006 8:55	Limited	170342	06C222				
M-121 MS	WATER	3/23/2006 14:00	Limited	170342					
M-121 MSD	WATER	3/23/2006 8:55	Limited	170342	06C222				
M-121 MSD	WATER	3/23/2006 14:00	Limited	170342					
M121-0.5	SOIL	3/10/2006 7:46	Limited		06C106				
M121-0.5	SOIL	3/10/2006 7:46	Limited			158269			
M121-0.5R	SOIL	3/24/2006 9:25	Limited		06C238				
M121-10	SOIL	3/10/2006 8:05	Limited		06C106				
M121-10	SOIL	3/10/2006 8:05	Limited			158269			
M121-20	SOIL	3/10/2006 8:20	Limited		06C106				
M121-30	SOIL	3/10/2006 9:25	Limited		06C106				
M121-40	SOIL	3/10/2006 9:37	Limited		06C106				
M121-5	SOIL	3/10/2006 7:55	Limited		06C106				

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Sample_ID	Matrix	Collection Date	Validation	MWH	EMAX	GEL	STL	FGS	EMS
M121-5	SOIL	3/10/2006 7:55	Limited			158269			
M121-50	SOIL	3/10/2006 10:40	Limited		06C106				
M121-5D	SOIL	3/10/2006 0:00	Limited		06C106				
M121-5D	SOIL	3/10/2006 0:00	Limited			158269			
M121-60	SOIL	3/10/2006 11:08	Limited		06C106				
M121-70	SOIL	3/10/2006 11:45	Limited		06C106				
M121-80	SOIL	3/10/2006 12:00	Limited		06C106				
M121-80	SOIL	3/10/2006 12:00	Limited			158269			
PUMP BLANK	WATER	3/13/2006 10:45	Limited	169585		158275			
TR-10	WATER	3/21/2006 10:20	Limited	170190	06C193	158971			
TR-10	WATER	3/21/2006 13:50	Limited	170190					
TR-10	WATER	3/23/2006 12:45	Limited	170342					
TR-10A	WATER	3/13/2006 14:35	Limited	169580	06C119	158272			
TR-7	WATER	3/21/2006 12:00	Limited	170190	06C193	158971			
TR-7	WATER	3/23/2006 13:00	Limited	170342					
TR-7A	WATER	3/20/2006 10:00	Limited	170033	06C187	158783			
TR-7A	WATER	3/20/2006 11:45	Limited	170033					
TR-8	WATER	3/20/2006 14:00	Limited	170033	06C187	158783			
TR-8A	WATER	3/20/2006 8:00	Limited	170033	06C187	158783			
TR-8A	WATER	3/20/2006 13:15	Limited	170033					
TR-8D	WATER	3/20/2006 0:00	Limited	170033	06C187	158783			
TR-9	WATER	3/21/2006 9:00	Limited	170190	06C193	158971			
TR-9	WATER	3/21/2006 13:40	Limited	170190					
TR-9	WATER	3/23/2006 12:30	Limited	170342					
TR-9A	WATER	3/14/2006 14:45	Limited	169653		158436			
TR-9A	WATER	3/14/2006 14:45	Limited		06C127				
TRIP BLANK	WATER	3/8/2006 0:00	Limited		06C081				
Note: MWH, EMAX, GEL, STL, FGS, EMS - designations for participating analytical laboratories									

Table E-4
Sample Delivery Groups and Analyses
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

SDG ID	ENSR ID	LAB	Metals		WetChem				TPH		Fuel Alcohols		OCP	PCB	OPP	Dioxin	Rad		VOC	SVOC	MeHg	Asbestos
			LL	SL	CIO4	Cr+6	LL	SL	GRO	DRO	M+EOH	EG					LL	SL				
158048	TH015	GEL															3	2				
158269	TH001	GEL																4				
158270	TH002	GEL																2				
158272	TH003	GEL																1				
158275	TH004	GEL																1				
158276	TH005	GEL																1				
158277	TH006	GEL																1				
158436	TH007	GEL																1				
158437	TH008	GEL																4				
158438	TH009	GEL																5				
158783	TH010	GEL																	5			
158971	TH011	GEL																	4			
159242	TH012	GEL																3				
159243	TH013	GEL																1				
159244	TH014	GEL																1				
159247	TH016	GEL															1					
169215	TH033	FGS																			3	
169215	TH053	EMS																				3
169286	TH035	MWH		1		1		1														
169405	TH036	MWH		1		1		1														
169580	TH037	MWH		1		1		1													1	
169585	TH038	MWH		1		1		1													1	
169653	TH039	MWH		2		2		1													1	
170033	TH040	MWH		5		5		5													5	
170190	TH042	MWH		4		4															4	
170226	TH034	FGS																				1
170226	TH041	MWH	1			1		1		1							1					1
170259	TH043	MWH	1			1		1		1												
170342	TH044	MWH		3		3		7													3	
170393	TH045	MWH		1		1		1		1											1	
06C071	TH018	EMAX		10		10		10		3		6	6	6	6	3	3	3		6	3	
06C081	TH019	EMAX		10		10		10		2		7	7	7	9					8		
06C096	TH020	EMAX										1	1	1	1					1		
06C106	TH021	EMAX		10		10		10		2		9	9	7	7					9		
06C119	TH022	EMAX										1	1	1	1					1		
06C120	TH023	EMAX		19		17		19		2		13	13	13	13					13		
06C127	TH024	EMAX		8		8		5		1		8	8	8	8					8		
06C187	TH026	EMAX										4	4	4	4					4		
06C193	TH027	EMAX										4	4	4	4					4		
06C199	TH025	EMAX										1	1	1	1					1		
06C204	TH028	EMAX										2	2	2	2	1	1	1		2	1	
06C222	TH029	EMAX										3	3	3	3					3		
06C238	TH031	EMAX												5								
06C239	TH030	EMAX										1	1	1	1	1	1	1		1	1	
06D012	TH032	EMAX												2								
G6C100424	TH017	STL																3				
G6E120362	TH052	STL																1				

Notes:
 SDGs in bold indicate full data validation
 LL = Long List of analytes
 SL = Short List of analytes
 ClO4 = Perchlorate
 Cr+6 = Hexavalent chromium
 M+EOH = Methanol and Ethanol
 EG = Ethylene glycol
 OCP = Organochlorine pesticides
 OPP = Organophosphorous pesticides
 Rad = radionuclides
 MeHg = Methylmercury

Table E-5
Qualifications Based on Holding Time Exceedances
Upgradient Investigation, Tronox Facility - Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
TR-10A_03/13/2006	169580	TH037	SW 846 9040B	W	Laboratory pH	8.3	s.u.	J	j-h
TR-9A_03/14/2006	169653	TH039	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
M-103A_03/20/2006	170033	TH040	SW 846 9040B	W	Laboratory pH	7.9	s.u.	J	j-h
TR-8A_03/20/2006	170033	TH040	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
TR-8_03/20/2006	170033	TH040	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
TR-7A_03/20/2006	170033	TH040	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
TR-8D_03/20/2006	170033	TH040	SW 846 9040B	W	Laboratory pH	7.9	s.u.	J	j-h
M-103_03/21/2006	170190	TH042	SW 846 9040B	W	Laboratory pH	6.7	s.u.	J	j-h
TR-9_03/21/2006	170190	TH042	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
TR-7_03/21/2006	170190	TH042	SW 846 9040B	W	Laboratory pH	7.9	s.u.	J	j-h
TR-10_03/21/2006	170190	TH042	SW 846 9040B	W	Laboratory pH	7.9	s.u.	J	j-h
M-118_03/22/2006	170259	TH043	SW 846 9040B	W	Laboratory pH	8.2	s.u.	J	j-h
M-120_03/22/2006	170226	TH041	SW 846 9030	W	Sulfide	0.05	mg/l	UJ	uj-h
M-120_03/22/2006	170226	TH041	SW 846 9040B	W	Laboratory pH	7.6	s.u.	J	j-h
M-121_03/23/2006	170342	TH044	SW 846 9056	W	Nitrite	1.0	mg/l	UJ	uj-h
M-121_03/23/2006	170342	TH044	SW 846 9040B	W	Laboratory pH	7.7	s.u.	J	j-h
M-121_03/23/2006	170342	TH044	SW 846 9056	W	Nitrate (as N)	7.9	mg/l	J-	j-h
H-11_03/23/2006	170342	TH044	SW 846 9040B	W	Laboratory pH	5.0	s.u.	J	j-h
M-117_03/23/2006	170342	TH044	SW 846 9040B	W	Laboratory pH	8.0	s.u.	J	j-h
EB-3_03/24/2006	170393	TH045	SW 846 9040B	W	Laboratory pH	6.3	s.u.	J	j-h

Notes

¹See Table E-1 for Data Validation Qualifiers

²See Table E-2 for reason code definitions

mg/L - milligram /liter

S.U. - standard units

W - water

Table E-6
Qualifications Based on Calibration Criteria Exceeded
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M120-5_03/07/2006	158048	TH015	DOE RP 280 mod	SO	Lead - 210 total	0.0735	pCi/g	UJ	uj-cp
M120-0.5_03/07/2006	158048	TH015	DOE RP 280 mod	SO	Lead - 210 total	0.462	pCi/g	UJ	uj-cp
M120-10_03/07/2006	158048	TH015	DOE RP 280 mod	SO	Lead - 210 total	-0.0593	pCi/g	UJ	uj-cp
M120-30_03/07/2006	158048	TH015	DOE RP 280 mod	SO	Lead - 210 total	0.0294	pCi/g	UJ	uj-cp
M120-50_03/07/2006	158048	TH015	DOE RP 280 mod	SO	Lead - 210 total	0.533	pCi/g	UJ	uj-cp
M-120_03/22/2006	159247	TH016	DOE RP 280 mod	W	Lead - 210 total	-0.346	pCi/L	UJ	uj-cp
M-120_03/22/2006	159247	TH016	EPA 904.0 mod	W	Ra-228 - total	0.381	pCi/L	UJ	uj-c
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Tetrachlorodibenzo-p-dioxin	0.55	pg/g	J	sp
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Tetrachlorodibenzofuran	20	pg/g	J	sp
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzofuran	22	pg/g	J	sp
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Tetrachlorodibenzofuran	0.74	pg/g	J	sp j-i
M120-30_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M120-0.5_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M120-0.5_03/07/2006	06C071	TH018	SW 846 8141A	SO	Naled	0.037	MG/KG	UJ	uj-c
M120-10_03/07/2006	06C071	TH018	SW 846 8141A	SO	Naled	0.035	MG/KG	UJ	uj-c
M120-5_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M120-30_03/07/2006	06C071	TH018	SW 846 8141A	SO	Naled	0.037	MG/KG	UJ	uj-c
M120-50_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M120-80_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M120-10_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M118-5_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
FB-1_03/08/2006	06C081	TH019	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
BLANK_03/08/2006	06C081	TH019	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M118-50_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M118-0.5_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M118-30_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M118-10_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M118-80_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
EB-1_03/09/2006	06C096	TH020	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M121-10_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-80_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-30_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c

Table E-6
Qualifications Based on Calibration Criteria Exceeded
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M121-5_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-70_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-0.5_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-60_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-50_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M121-5D_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
TR-10A_03/13/2006	06C119	TH022	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M117-50_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	6.7	UG/KG	UJ	uj-c
M117-5_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5.2	UG/KG	UJ	uj-c
M117-30_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-5_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-50_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-80_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-80_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5	UG/KG	UJ	uj-c
M116-0.5D_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5.9	UG/KG	UJ	uj-c
M117-80D_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M116-30_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-80D_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5.2	UG/KG	UJ	uj-c
M116-50_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5.9	UG/KG	UJ	uj-c
M117-0.5_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	4.8	UG/KG	UJ	uj-c
M117-10_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	5.1	UG/KG	UJ	uj-c
M116-0.5_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-0.5_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M116-0.5_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	4.9	UG/KG	UJ	uj-c
M116-10_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M116-50_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M117-30_03/11/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	7.4	UG/KG	UJ	uj-c
M116-5_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	7.8	UG/KG	UJ	uj-c
M116-5_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M116-30_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	7.9	UG/KG	UJ	uj-c
M116-10_03/12/2006	06C120	TH023	SW 846 8260B	SO	2,2-Dichloropropane	7	UG/KG	UJ	uj-c
M117-10_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c

Table E-6
Qualifications Based on Calibration Criteria Exceeded
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M116-0.5D_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-5_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
EB-2_03/14/2006	06C127	TH024	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M119-32_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-10_03/14/2006	06C127	TH024	SW 846 8260B	SO	2,2-Dichloropropane	5.3	UG/KG	UJ	uj-c
TR-9A_03/14/2006	06C127	TH024	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M119-50_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-5_03/14/2006	06C127	TH024	SW 846 8260B	SO	2,2-Dichloropropane	6.6	UG/KG	UJ	uj-c
M119-10_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-0.5D_03/14/2006	06C127	TH024	SW 846 8260B	SO	2,2-Dichloropropane	5.5	UG/KG	UJ	uj-c
M119-0.5D_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-0.5_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		UG/KG	R	r-c
M119-0.5_03/14/2006	06C127	TH024	SW 846 8260B	SO	2,2-Dichloropropane	5.5	UG/KG	UJ	uj-c
M-103A_03/20/2006	06C199	TH025	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
M-103A_03/20/2006	06C199	TH025	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-7A_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-8_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
BLANK_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-8D_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-8A_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M-103_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-7_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-10_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
TR-9_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
BLANK_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
BLANK_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M-118_03/22/2006	06C204	TH028	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
BLANK_03/22/2006	06C204	TH028	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
M-120_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M-120_03/22/2006	06C204	TH028	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
M-118_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c

Table E-6
Qualifications Based on Calibration Criteria Exceeded
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M-117_03/23/2006	06C222	TH029	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
BLANK_03/23/2006	06C222	TH029	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
BLANK_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
H-11_03/23/2006	06C222	TH029	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
M-121_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
M-121_03/23/2006	06C222	TH029	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
M-117_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
H-11_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
BLANK_03/24/2006	06C239	TH030	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
EB-3_03/24/2006	06C239	TH030	SW 846 8260B	W	t-Butyl alcohol		UG/L	R	r-c
EB-3_03/24/2006	06C239	TH030	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Naled	1.2	UG/L	UJ	uj-c
BLANK_03/24/2006	06C239	TH030	SW 846 8260B	W	Naphthalene	5	UG/L	UJ	uj-c

Notes:

¹ See Table E-1 for Data Validation Qualifiers

² See Table E-2 for reason code definitions

SO - soil

W - water

pg/g - picogram/gram

ug/kg - microgram/kilogram

mg/kg - milligram/kilogram

ug/l - microgram/liter

pCi/g - picoCuries/gram

Table E-7
Qualifications Based on Interference Check Sample Results
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.687	mg/kg	J+	j-z
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	56.2	mg/kg	J+	j-z
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	479		J+	j-z
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.502	mg/kg	J+	j-z
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	76.8	mg/kg	J+	j-z
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	544	mg/kg	J+	j-z
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.429	mg/kg	J+	j-z
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	27.1	mg/kg	J+	j-z
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	327	mg/kg	J+	j-z
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.613	mg/kg	J+	j-z
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	29.2	mg/kg	J+	j-z
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	149	mg/kg	J+	j-z
M120-40D_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.696	mg/kg	J+	j-z
M120-40D_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	288	mg/kg	J+	j-z
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.473	mg/kg	J+	j-z
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	11.1	mg/kg	J+	j-z
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	253	mg/kg	J+	j-z
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Cadmium	0.361	mg/kg	J+	j-z
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Copper	21.3	mg/kg	J+	j-z
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Manganese	336	mg/kg	J+	j-z

Notes:
¹ See Table E-1 for Data Validation Qualifiers
² See Table E-2 for reason code definitions
 SO - soil
 mg/kg - milligram/kilogram

Copper result of 21.7 mg/kg for sample M120-40D_03/07/2006 is qualified J+ with j-z reason code

Table E-8
Qualifications Based on Blank Contamination
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M121-0.5_03/10/2006	158269	TH001	HASL-300 Th mod	SO	Th-230 - total	0.824	pCi/g	B	u-b
M121-80_03/10/2006	158269	TH001	HASL-300 Th mod	SO	Th-230 - total	1.13	pCi/g	B	u-b
M121-5D_03/10/2006	158269	TH001	HASL-300 Th mod	SO	Th-230 - total	1.26	pCi/g	B	u-b
M121-5_03/10/2006	158269	TH001	HASL-300 Th mod	SO	Th-230 - total	1.32	pCi/g	B	u-b
M118-0.5_03/08/2006	158270	TH002	HASL-300 Th mod	SO	Th-230 - total	0.892	pCi/g	B	u-b
M118-5_03/08/2006	158270	TH002	HASL-300 Th mod	SO	Th-230 - total	1.18	pCi/g	B	u-b
M119-5_03/14/2006	158437	TH008	HASL-300 Th mod	SO	Th-230 - total	0.687	pCi/g	B	u-b
M119-0.5D_03/14/2006	158437	TH008	HASL-300 Th mod	SO	Th-230 - total	1.12	pCi/g	B	u-b
M119-0.5_03/14/2006	158437	TH008	HASL-300 Th mod	SO	Th-230 - total	0.948	pCi/g	B	u-b
M117-5_03/11/2006	158438	TH009	HASL-300 Th mod	SO	Th-230 - total	1.33	pCi/g	JB	j-b
M117-0.5_03/11/2006	158438	TH009	HASL-300 Th mod	SO	Th-230 - total	1.15	pCi/g	B	u-b
M116-5_03/12/2006	158438	TH009	HASL-300 Th mod	SO	Th-230 - total	0.873	pCi/g	B	u-b
M119-0.5D_03/12/2006	158438	TH009	HASL-300 Th mod	SO	Th-230 - total	1.24	pCi/g	B	u-b
M116-0.5_03/12/2006	158438	TH009	HASL-300 Th mod	SO	Th-230 - total	0.704	pCi/g	B	u-b
M-103A_03/20/2006	158783	TH010	EPA 903.1 mod	W	Ra-226 - total	0.969	pCi/L	B	u-be
H-11_03/23/2006	159242	TH012	EPA 903.1 mod	W	Ra-226 - total	0.422	pCi/L	B	u-be
M120-50_03/07/2006	06C071	TH018	SW 846 8260B	SO	Acetone	42	ug/kg	U	u-be
M120-10_03/07/2006	06C071	TH018	SW 846 8260B	SO	Acetone	10	ug/kg	U	u-be
M118-50_03/08/2006	06C081	TH019	SW 846 8260B	SO	Acetone	15	ug/kg	U	u-be
M118-0.5_03/08/2006	06C081	TH019	SW 846 8260B	SO	Acetone	9.2	ug/kg	U	u-be
M121-5_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.557	ug/kg	U	u-bl
M121-80_03/10/2006	06C106	TH021	SW 846 8260B	SO	Acetone	18	ug/kg	U	u-be
M121-10_03/10/2006	06C106	TH021	SW 846 8260B	SO	Acetone	9.7	ug/kg	U	u-be
M121-10_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.604	mg/kg	U	u-bl
M121-20_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.549	mg/kg	U	u-bl
M121-30_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.665	mg/kg	U	u-bl
M121-30_03/10/2006	06C106	TH021	SW 846 8260B	SO	Acetone	14	mg/kg	U	u-be
M121-40_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.549	mg/kg	U	u-bl
M121-80_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.69	mg/kg	U	u-bl
M121-5D_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.552	mg/kg	U	u-bl

M119-0.5D_03/14/2006

Table E-8
Qualifications Based on Blank Contamination
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M121-50_03/10/2006	06C106	TH021	SW 846 6020A	SO	Molybdenum	0.532	mg/kg	U	u-bl
M116-0.5_03/12/2006	06C120	TH023	SW 846 8260B	SO	Acetone	12	ug/kg	U	u-be
0.5D_03/12/2006	06C120	TH023	SW 846 8260B	SO	Acetone	22	ug/kg	U	u-be
M116-10_03/12/2006	06C120	TH023	SW 846 8260B	SO	Acetone	14	ug/kg	U	u-be
M117-0.5_03/11/2006	06C120	TH023	SW 846 8260B	SO	Acetone	9.6	ug/kg	U	u-be
M117-10_03/11/2006	06C120	TH023	SW 846 8260B	SO	Acetone	27	ug/kg	U	u-be
M117-5_03/11/2006	06C120	TH023	SW 846 8260B	SO	Acetone	15	ug/kg	U	u-be
M117-50_03/11/2006	06C120	TH023	SW 846 8260B	SO	Acetone	13	ug/kg	U	u-be
M116-50_03/12/2006	06C120	TH023	SW 846 8260B	SO	Acetone	12	ug/kg	U	u-be
M119-0.5_03/14/2006	06C127	TH024	SW 846 8260B	SO	Acetone	11	ug/kg	U	u-be
M119-40_03/14/2006	06C127	TH024	SW 846 6020A	SO	Zinc	44.3	mg/kg	J+	j-be
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Cobalt	7.0	ug/l	J+	j-be, j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	4.6	ug/l	J+	j-be, j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Barium	22	ug/l	J+	j-be, j-i

Notes:
¹See Table E-1 for Data Validation Qualifiers
²See Table E-2 for reason code definitions
 SO - soil
 W - water
 ug/kg - microgram/kilogram
 mg/kg - milligram/kilogram
 ug/L - microgram/liter
 pCi/L - picoCuries/gram

Table E-9
Qualifications Based on Laboratory Control Samples
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M-120_03/22/2006	06C204	TH028	SW 846 8270C	W	3,3-Dichlorobenzidine		ug/l	R	r-l
EB-3_03/24/2006	06C239	TH030	SW 846 8270C	W	3,3-Dichlorobenzidine		ug/l	R	r-l
Notes: W - water ug/L - microgram/liter ¹ See Table E-1 for Data Validation Qualifiers ² See Table E-2 for reason code definitions									

Table E-10
Qualifications Based on Matrix Spike Recoveries
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	33	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzofuran	30	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	6.7	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzofuran	11	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.62	pg/g	UJ	uj-m, uj-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzofuran	2.9	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.53	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzofuran	52	pg/g	J	j-m
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzo-p-dioxin	12	pg/g	J	j-m
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzofuran	51	pg/g	J	j-m
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-q
M120-50_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.17	mg/kg	J-	j-m, sp
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.529	mg/kg	UJ	uj-m
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.599	mg/kg	UJ	uj-m
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.602	mg/kg	UJ	uj-m
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.559	mg/kg	UJ	uj-m
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.558	mg/kg	UJ	uj-m
M120-40_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.548	mg/kg	UJ	uj-m
M120-40D_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.561	mg/kg	UJ	uj-m
M120-5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.539	mg/kg	UJ	uj-m
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Antimony	0.537	mg/kg	UJ	uj-m
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.23	mg/kg	UJ	uj-m
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.41	mg/kg	UJ	uj-m
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.15	mg/kg	UJ	uj-m
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.11	mg/kg	UJ	uj-m
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.4	mg/kg	UJ	uj-m
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.23	mg/kg	UJ	uj-m

The results for Total Tetrachlorodibenzo-p-dioxin (0.55 pg/g) and Total Tetrachlorodibenzofuran (20 pg/g) in sample M120-0.5_03/07/2006 are qualified J with reason codes j-m, sp

Table E-10
Qualifications Based on Matrix Spike Recoveries
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M120-40_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.19	mg/kg	UJ	uj-m
M120-40D_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.24	mg/kg	UJ	uj-m
M120-5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	2.16	mg/kg	UJ	uj-m
M120-50_03/07/2006	06C071	TH018	SW 846 6020A	SO	Tungsten	3.07	mg/kg	UJ	uj-m
M118-5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony	0.125	mg/kg	J-	j-m
M118-0.5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony	0.184	mg/kg	J-	j-m
M118-20_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony	0.11	mg/kg	J-	j-m
M118-50_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony	0.19	mg/kg	J-	j-m
M118-40_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-30_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-20D_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-10_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-80_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-60_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-30_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	49.3	mg/kg	J-	j-m
M118-40_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	52.5	mg/kg	J-	j-m
M118-5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	232	mg/kg	J-	j-m
M118-20_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	189	mg/kg	J-	j-m
M118-50_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	78.6	mg/kg	J-	j-m
M118-0.5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	190	mg/kg	J-	j-m
M118-10_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	139	mg/kg	J-	j-m
M118-20D_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	181	MG/KG	J-	j-m
M118-60_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	79.8	mg/kg	J-	j-m
M118-80_03/08/2006	06C081	TH019	SW 846 6020A	SO	Barium	94.9	mg/kg	J-	j-m
M118-5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	0.65	mg/kg	J-	j-m
M118-50_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	0.8	mg/kg	J-	j-m
M118-20D_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	0.553	mg/kg	J-	j-m
M118-0.5_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	0.665	mg/kg	J-	j-m
M118-30_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.27	mg/kg	UJ	uj-m
M118-40_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.29	mg/kg	UJ	uj-m
M118-10_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.32	mg/kg	UJ	uj-m

Table E-10
Qualifications Based on Matrix Spike Recoveries
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M118-20_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.11	mg/kg	UJ	uj-m
M118-60_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.17	mg/kg	UJ	uj-m
M118-80_03/08/2006	06C081	TH019	SW 846 6020A	SO	Tungsten	2.34	mg/kg	UJ	uj-m
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	9380	mg/kg	J+	j-m
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	10600	mg/kg	J+	j-m
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	9030	mg/kg	J+	j-m
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	12900	mg/kg	J+	j-m
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	10400	mg/kg	J+	j-m
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	8670	mg/kg	J+	j-m
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	10200	mg/kg	J+	j-m
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	7700	mg/kg	J+	j-m
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	10800	mg/kg	J+	j-m
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	9020	mg/kg	J+	j-m
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	14800	mg/kg	J+	j-m
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	10900	mg/kg	J+	j-m
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	12300	mg/kg	J+	j-m
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	11600	mg/kg	J+	j-m
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	11500	mg/kg	J+	j-m
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	12500	mg/kg	J+	j-m
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	11800	mg/kg	J+	j-m
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	14300	mg/kg	J+	j-m
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Aluminum	8830	mg/kg	J+	j-m
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.205	mg/kg	J-	j-m, sp
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.157	mg/kg	J-	j-m
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.217	mg/kg	J-	j-m
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.62	mg/kg	UJ	uj-m
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.527	mg/kg	UJ	uj-m
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.557	mg/kg	UJ	uj-m
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.54	mg/kg	UJ	uj-m
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.584	mg/kg	UJ	uj-m
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.541	mg/kg	UJ	uj-m

Table E-10
Qualifications Based on Matrix Spike Recoveries
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.528	mg/kg	UJ	uj-m
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.54	mg/kg	UJ	uj-m
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.608	mg/kg	UJ	uj-m
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.613	mg/kg	UJ	uj-m
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.635	mg/kg	UJ	uj-m
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.621	mg/kg	UJ	uj-m
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.572	mg/kg	UJ	uj-m
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.568	mg/kg	UJ	uj-m
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.56	mg/kg	UJ	uj-m
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Antimony	0.549	mg/kg	UJ	uj-m
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	46	mg/kg	J	j-m, j-d
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	150	mg/kg	J	j-m, j-d
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	58.8	mg/kg	J	j-m, j-d
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	156	mg/kg	J	j-m, j-d
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	219	mg/kg	J	j-m, j-d
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	107	mg/kg	J	j-m, j-d
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	167	mg/kg	J	j-m, j-d
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	201	mg/kg	J	j-m, j-d
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	272	mg/kg	J	j-m, j-d
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	173	mg/kg	J	j-m, j-d
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	178	mg/kg	J	j-m, j-d
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	125	mg/kg	J	j-m, j-d
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	58.3	mg/kg	J	j-m, j-d
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	116	mg/kg	J	j-m, j-d
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	90	mg/kg	J	j-m, j-d
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	211	mg/kg	J	j-m, j-d
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	167	mg/kg	J	j-m, j-d
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	171	mg/kg	J	j-m, j-d
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	249	mg/kg	J	j-m, j-d
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	8330	mg/kg	J+	j-m
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	9690	mg/kg	J+	j-m

Table E-10
Qualifications Based on Matrix Spike Recoveries
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	9500	mg/kg	J+	j-m
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	9640	mg/kg	J+	j-m
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	9530	mg/kg	J+	j-m
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	12000	mg/kg	J+	j-m
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	12900	mg/kg	J+	j-m
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	13700	mg/kg	J+	j-m
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	7390	mg/kg	J+	j-m
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	12600	mg/kg	J+	j-m
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	8210	mg/kg	J+	j-m
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	9120	mg/kg	J+	j-m
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Iron	11400	mg/kg	J+	j-m
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	11200	mg/kg	J+	j-m
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	12400	mg/kg	J+	j-m
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	11400	mg/kg	J+	j-m
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	12300	mg/kg	J+	j-m
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	9480	mg/kg	J+	j-m
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Iron	14300	mg/kg	J+	j-m
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	0.708	mg/kg	J-	j-m
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	0.582	mg/kg	J-	j-m
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.48	mg/kg	UJ	uj-m
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.23	mg/kg	UJ	uj-m
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.16	mg/kg	UJ	uj-m
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.11	mg/kg	UJ	uj-m
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.16	mg/kg	UJ	uj-m
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.16	mg/kg	UJ	uj-m
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.34	mg/kg	UJ	uj-m
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.11	mg/kg	UJ	uj-m
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.43	mg/kg	UJ	uj-m
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.37	mg/kg	UJ	uj-m
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.54	mg/kg	UJ	uj-m
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.45	mg/kg	UJ	uj-m

Table E-10
Qualifications Based on Matrix Spike Recoveries
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.48	mg/kg	UJ	uj-m
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.29	mg/kg	UJ	uj-m
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.24	mg/kg	UJ	uj-m
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.27	mg/kg	UJ	uj-m
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Tungsten	2.2	mg/kg	UJ	uj-m
M119-32_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	594	mg/kg	J+	j-m
M119-50_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	691	mg/kg	J+	j-m
M119-5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	598	mg/kg	J+	j-m
M119-40_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	739	mg/kg	J+	j-m
M119-0.5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	536	mg/kg	J+	j-m
M119-0.5D_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	622	mg/kg	J+	j-m
M119-10_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	728	mg/kg	J+	j-m
M119-20_03/14/2006	06C127	TH024	SW 846 6020A	SO	Titanium	553	mg/kg	J+	j-m
TR-10A_03/13/2006	169580	TH037	SW 846 6010B	W	Sodium	300	mg/l	J	j-m, j-d,
TR-9A_03/14/2006	169653	TH039	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
TR-7A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
M-103A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	320	mg/l	J	j-m, j-d
TR-8D_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	220	mg/l	J	j-m, j-d
TR-8A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	230	mg/l	J	j-m, j-d
TR-8_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	230	mg/l	J	j-m, j-d
TR-10_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	310	mg/l	J	j-m, j-d
TR-9_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
M-103_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	330	mg/l	J	d-m, j-d
TR-7_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
M-118_03/22/2006	170259	TH043	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
M-120_03/22/2006	170259	TH043	SW 846 6010B	W	Sodium	250	mg/l	J	j-m, j-d
H-11_03/23/2006	170342	TH044	SM 2320B	W	Alkalinity (as CaCO3)	2.000	mg/l	UJ	uj-m
M-121_03/23/2006	170342	TH044	SM 2320B	W	Alkalinity (as CaCO3)	93	mg/l	J-	j-m
M-117_03/23/2006	170342	TH044	SM 2320B	W	Alkalinity (as CaCO3)	76	mg/l	J-	j-m

Table E-10
Qualifications Based on Matrix Spike Recoveries
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M-117_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
M-121_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	420	mg/l	J	j-m, j-d
H-11_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	150	mg/l	J	j-m, j-d
Notes: ¹ See Table E-1 for Data Validation Qualifiers ² See Table E-2 for reason code definition SO - soil W - water pg/g - picogram/gram mg/kg - milligram/kilogram mg/L - milligram/liter									

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzofuran	1.3	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	1.4	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.84	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.59	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzofuran	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.56	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzofuran	0.65	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzofuran	0.74	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzofuran	0.48	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.2	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,4,6,7,8-Hexachlorodibenzofuran	0.71	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,4,7,8-Pentachlorodibenzofuran	0.47	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzofuran	0.55	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.27	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzofuran	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzo-p-dioxin	0.84	pg/g	UJ	uj-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzofuran	0.87	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzofuran	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i, uj-q
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Tetrachlorodibenzofuran	0.74	pg/g	J	j-c, j-i
M120-10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Tetrachlorodibenzo-p-dioxin	0.27	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzofuran	1.4	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	5.6	pg/g	UJ	uj-i, uj-q
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.56	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.81	pg/g	UJ	uj-i

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.63	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzofuran	0.54	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.56	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzofuran	0.51	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.51	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzofuran	0.56	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.5	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzofuran	0.34	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.79	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,4,6,7,8-Hexachlorodibenzofuran	0.55	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,4,7,8-Pentachlorodibenzofuran	0.33	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzofuran	0.63	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzo-p-dioxin	0.81	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzofuran	0.56	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzo-p-dioxin	0.56	pg/g	UJ	uj-i
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzofuran	2.8	pg/g	UJ	uj-i, uj-q
M120-30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i, uj-q
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Aluminum	25.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Arsenic	2.4	ug/l	J	j-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Barium	175	ug/l	J	j-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Chromium	1.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Copper	2.0	ug/l	J	j-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Manganese	3.7	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Nickel	6.1	ug/l	J	j-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Vanadium	3.000	ug/l	UJ	uj-i

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Zinc	5.1	ug/l	J	j-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Aluminum	41	ug/l	J	j-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Arsenic	1.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Barium	2.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Chromium	1.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Copper	4.4	ug/l	J	j-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Manganese	6.6	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Nickel	35	ug/l	J	j-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Vanadium	3.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Zinc	11	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Aluminum	2000	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Arsenic	63	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Chromium	51	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Copper	4.9	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Manganese	61	ug/l	J	j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Nickel	14	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Vanadium	35	ug/l	J	j-i
TR-10A_03/13/2006	169580	TH037	SW 846 6020	W	Zinc	39	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Aluminum	13000	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Arsenic	65	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Chromium	44	ug/l	J	j-i

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Cobalt	7.0	ug/l	J	j-be, j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Copper	37	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Manganese	530	ug/l	J	j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Nickel	5.1	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Vanadium	70	ug/l	J	j-i
TR-9A_03/14/2006	169653	TH039	SW 846 6020	W	Zinc	4000	ug/l	J	j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	1500	ug/l	J	j-f, j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	15000	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	630	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	1800	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	2800	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Arsenic	44	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Arsenic	74	ug/l	J	j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Arsenic	125	ug/l	J	j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Arsenic	75	ug/l	J	j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Arsenic	73	ug/l	J	j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Barium	58	ug/l	J	j-f, j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	265	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Barium	85	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	75	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	51	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)										
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²	
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i	
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Chromium	16	ug/l	J	j-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Chromium	15	ug/l	J	j-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Chromium	11	ug/l	J	j-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Chromium	29	ug/l	J	j-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Chromium	17	ug/l	J	j-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	4.6	ug/l	J	j-be, j-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i	
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Copper	2.5	ug/l	J	j-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Copper	50	ug/l	J	j-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Copper	4.3	ug/l	J	j-i	
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Copper	9.8	ug/l	J	j-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Copper	7.4	ug/l	J	j-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	26	ug/l	J	j-f, j-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	470	ug/l	J	j-f, j-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	145	ug/l	J	j-f, j-i	
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	56	ug/l	J	j-f, j-i	
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	53	ug/l	J	j-f, j-i	
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Molybdenum	5.3	ug/l	J	j-i	
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Molybdenum	13	ug/l	J	j-i	
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Molybdenum	42	ug/l	J	j-i	

Table E-11
Qualification Based on Internal Standard Performance
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Molybdenum	13	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Nickel	6	ug/l	J	j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Nickel	5.3	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Nickel	33	ug/l	J	j-i
FB-1_03/08/2006	169286	TH035	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
EB-1_03/09/2006	169405	TH036	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Vanadium	30	ug/l	J	j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Vanadium	38	ug/l	J	j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Vanadium	33	ug/l	J	j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Vanadium	28	ug/l	J	j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Vanadium	33	ug/l	J	j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	58	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	58	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	41	ug/l	J	j-f, j-i
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	77	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	75	ug/l	J	j-f, j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Aluminum	1600	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Aluminum	640	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Aluminum	185	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Aluminum	115	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i

Table E-11
Qualification Based on Internal Standard Performance
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Arsenic	63	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Arsenic	50	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Arsenic	115	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Arsenic	39	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Barium	50	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Barium	38	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Barium	53	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Barium	29	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Chromium	31	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Chromium	16	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Chromium	11	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Chromium	41	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Copper	7.0	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Copper	2.1	ug/l	J	j-i

Table E-11
Qualification Based on Internal Standard Performance
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Copper	2.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Copper	2.0	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Manganese	25	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Manganese	56	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Manganese	4.6	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Manganese	10	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Molybdenum	49	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Molybdenum	5.2	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Molybdenum	21	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Molybdenum	5.2	ug/l	J	j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Vanadium	26	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Vanadium	28	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Vanadium	25	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Vanadium	27	ug/l	J	j-i
TR-7_03/21/2006	170190	TH042	SW 846 6020	W	Zinc	43	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Zinc	11	ug/l	J	j-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Zinc	52	ug/l	J	j-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Zinc	5.0	ug/l	J	j-i

Table E-11
Qualification Based on Internal Standard Performance
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Aluminum	38	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Aluminum	1100	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Antimony	1	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Arsenic	36	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Arsenic	155	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Barium	37	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Barium	37	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Beryllium	1	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Chromium	9.1	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Chromium	2.5	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Cobalt	2	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Copper	2.6	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Copper	2.000	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Manganese	82	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Manganese	55	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Molybdenum	13	ug/l	J	j-i
M-103_03/21/2006	170190	TH042	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
TR-9_03/21/2006	170190	TH042	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Selenium	5	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Vanadium	12	ug/l	J	j-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Vanadium	21	ug/l	J	j-i
M-120_03/22/2006	170259	TH043	SW 846 6020	W	Zinc	5	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Zinc	10	ug/l	J	j-i

Table E-11
Qualification Based on Internal Standard Performance
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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Aluminum	250	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Aluminum	78	ug/l	J	j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Arsenic	88	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Arsenic	58	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Arsenic	3.5	ug/l	J	j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Barium	39	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Barium	310	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Barium	22	ug/l	J	j-be, j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Beryllium	1.5	ug/l	J	j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Chromium	23	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Chromium	54	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Chromium	2.2	ug/l	J	j-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Cobalt	9.4	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Cobalt	2.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Copper	2.9	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Copper	24	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Copper	2.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Manganese	84	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Manganese	530	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Manganese	4000	ug/l	J	j-i

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(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Molybdenum	125	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Molybdenum	13	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Molybdenum	2.000	ug/l	UJ	uj-i
TR-10_03/21/2006	170190	TH042	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
M-118_03/22/2006	170259	TH043	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Vanadium	14	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Vanadium	55	ug/l	J	j-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Vanadium	3.000	ug/l	UJ	uj-i
M-121_03/23/2006	170342	TH044	SW 846 6020	W	Zinc	5.000	ug/l	UJ	uj-i
H-11_03/23/2006	170342	TH044	SW 846 6020	W	Zinc	290	ug/l	J	j-i
M-117_03/23/2006	170342	TH044	SW 846 6020	W	Zinc	105	ug/l	J	j-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Aluminum	25.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Antimony	1.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Arsenic	1.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Barium	5.5	ug/l	J	j-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Beryllium	1.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Cadmium	0.500	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Chromium	1.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Cobalt	3.5	ug/l	J	j-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Copper	2.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Lead	0.500	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Manganese	2.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Molybdenum	2.000	ug/l	UJ	uj-i

Table E-11
Qualification Based on Internal Standard Performance
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier	Reason Code ²
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Nickel	5.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Selenium	5.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Silver	0.500	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Thallium	1.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Tungsten	2.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Vanadium	3.000	ug/l	UJ	uj-i
EB-3_03/24/2006	170393	TH045	SW 846 6020	W	Zinc	8.3	ug/l	J	j-i

Notes:
¹See Table E-1 for Data Validation Qualifiers
²See Table E-2 for reason code definitions
 SO - soil
 W - water
 pg/g - picogram/gram
 ug/l

Table E-12
Qualifications Based on Laboratory Duplicate Precision
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	33	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzofuran	2.7	pg/g	UJ	uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.53	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	6.7	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.62	pg/g	UJ	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzofuran	11	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzofuran	7.7	pg/g	J	j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m, uj-d, uj-q
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzofuran	30	pg/g	J	j-m, j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzofuran	54	pg/g	J	j-d
M120-0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzofuran	2.9	pg/g	J	j-m, j-d
M118-50_03/08/2006	06C081	TH019	SW 846 8260B	SO	Hexachlorobutadiene	7.3	ug/kg	UJ	uj-d
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	272	mg/kg	J	j-m, j-d
M117-50_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	49	ug/kg	UJ	uj-d
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	125	mg/kg	J	j-m, j-d
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	171	mg/kg	J	j-m, j-d
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	249	mg/kg	J	j-m, j-d
M117-40_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	44.8	ug/kg	UJ	uj-d
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	167	mg/kg	J	j-m, j-d
M117-30_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	45.5	ug/kg	UJ	uj-d
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	211	mg/kg	J	j-m, j-d
M116-0.5_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	600	ug/kg	J	j-d
M116-0.5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	178	mg/kg	J	j-m, j-d
M116-0.5D_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	803	ug/kg	J	j-d
M116-0.5D_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	201	mg/kg	J	j-m, j-d
M116-10_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	202	ug/kg	J	j-d
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	150	mg/kg	J	j-m, j-d
M116-30_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	48.7	ug/kg	UJ	uj-d
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	107	mg/kg	J	j-m, j-d
M116-40_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	46.7	ug/kg	UJ	uj-d

(continued)

Table E-12
Qualifications Based on Laboratory Duplicate Precision
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M117-60_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	50.8	ug/kg	UJ	uj-d
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	58.8	mg/kg	J	j-m, j-d
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	90	mg/kg	J	j-m, j-d
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	156	mg/kg	J	j-m, j-d
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	219	mg/kg	J	j-m, j-d
M117-0.5_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	42.1	ug/kg	UJ	uj-d
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	167	mg/kg	J	j-m, j-d
M116-50_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	273	ug/kg	J	j-d
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	46	mg/kg	J	j-m, j-d
M116-5_03/12/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	1340	ug/kg	J	j-d
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Barium	173	mg/kg	J	j-m, j-d
M117-80_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	94.7	ug/kg	J	j-d
M117-80D_03/11/2006	06C120	TH023	EPA 314.0	SO	Perchlorate	83.1	ug/kg	J	j-d
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	116	mg/kg	J	j-m, j-d
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Barium	58.3	mg/kg	J	j-m, j-d
TR-10A_03/13/2006	169580	TH037	SW 846 6010B	W	Magnesium	54	mg/l	J	j-d
TR-10A_03/13/2006	169580	TH037	SW 846 6010B	W	Sodium	300	mg/l	J	j-m, j-d,
TR-9A_03/14/2006	169653	TH039	SW 846 6010B	W	Magnesium	59	mg/l	J	j-d
TR-9A_03/14/2006	169653	TH039	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
TR-8D_03/20/2006	170033	TH040	SW 846 6010B	W	Magnesium	46	mg/l	J	j-d
TR-7A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
TR-8_03/20/2006	170033	TH040	SW 846 6010B	W	Magnesium	51	mg/l	J	j-d
TR-8A_03/20/2006	170033	TH040	SW 846 6010B	W	Magnesium	47	mg/l	J	j-d
TR-8A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	230	mg/l	J	j-m, j-d
TR-8_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	230	mg/l	J	j-m, j-d
TR-8D_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	220	mg/l	J	j-m, j-d
TR-7A_03/20/2006	170033	TH040	SW 846 6010B	W	Magnesium	26	mg/l	J	j-d
M-103A_03/20/2006	170033	TH040	SW 846 6010B	W	Sodium	320	mg/l	J	j-m, j-d
M-103A_03/20/2006	170033	TH040	SW 846 6010B	W	Magnesium	82	mg/l	J	j-d
TR-9_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
M-103_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	330	mg/l	J	j-m, j-d
M-103_03/21/2006	170190	TH042	SW 846 6010B	W	Magnesium	69	mg/l	J	j-d

Table E-12
Qualifications Based on Laboratory Duplicate Precision
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
TR-9_03/21/2006	170190	TH042	SW 846 6010B	W	Magnesium	23	mg/l	J	j-d
TR-7_03/21/2006	170190	TH042	SW 846 6010B	W	Magnesium	26	mg/l	J	j-d
TR-10_03/21/2006	170190	TH042	SW 846 6010B	W	Magnesium	53	mg/l	J	j-d
TR-10_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	310	mg/l	J	j-m, j-d
TR-7_03/21/2006	170190	TH042	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
M-120_03/22/2006	170259	TH043	SW 846 6010B	W	Magnesium	140	mg/l	J	j-d
M-120_03/22/2006	170259	TH043	SW 846 6010B	W	Sodium	250	mg/l	J	j-m, j-d
M-118_03/22/2006	170259	TH043	SW 846 6010B	W	Sodium	160	mg/l	J	j-m, j-d
M-118_03/22/2006	170259	TH043	SW 846 6010B	W	Magnesium	23	mg/l	J	j-d
M-117_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	170	mg/l	J	j-m, j-d
M-117_03/23/2006	170342	TH044	SW 846 6010B	W	Magnesium	95	mg/l	J	j-d
M-121_03/23/2006	170342	TH044	SW 846 6010B	W	Magnesium	120	mg/l	J	j-d
M-121_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	420	mg/l	J	j-m, j-d
H-11_03/23/2006	170342	TH044	SW 846 6010B	W	Magnesium	22	mg/l	J	j-d
H-11_03/23/2006	170342	TH044	SW 846 6010B	W	Sodium	150	mg/l	J	j-m, j-d
M120-30_03/07/2006	06C071	TH018	SW 846 8141A	SO	Dimethoate	0.037	mg/kg	UJ	uj-d
M120-10_03/07/2006	06C071	TH018	SW 846 8141A	SO	Dimethoate	0.035	mg/kg	UJ	uj-d
M120-0.5_03/07/2006	06C071	TH018	SW 846 8141A	SO	Dimethoate	0.037	mg/kg	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Stirophos	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Parathion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Thionazin	1.9	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Methyl parathion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Mevinphos	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Azinphos-methyl	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Epn	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Ethoprop	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Demeton-s	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Demeton-o	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Merphos	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Malathion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Dichlorvos	0.94	ug/l	UJ	uj-d

Table E-12
Qualifications Based on Laboratory Duplicate Precision
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason ²
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Chlorpyrifos	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Fensulfothion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Fenthion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Bolstar	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Disulfoton	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Coumaphos	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Ronnel	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Famphur	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Sulfotep	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Tokuthion	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Diazinon	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Trichloronate	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Naled	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Dimethoate	0.94	ug/l	UJ	uj-d
M-120_03/22/2006	06C204	TH028	SW 846 8141A	W	Phorate	0.94	ug/l	UJ	uj-d
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Dimethoate	1.2	ug/l	UJ	uj-d
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Fensulfothion	1.2	ug/l	UJ	uj-d
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Demeton-s	1.2	ug/l	UJ	uj-d
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Demeton-o	1.2	ug/l	UJ	uj-d
EB-3_03/24/2006	06C239	TH030	SW 846 8141A	W	Disulfoton	1.2	ug/l	UJ	uj-d

Notes:

¹See Table E-1 for Dtaa Validation Qualifiers

²See Table E-2 for reason code definitions

SO - soil

W - water

pg/g - picogram/gram

ug/kg - microgram/kilogram

mg/kg - milligram/kilogram

mg/l - milligram/liter

ug/l - microgram/liter

Table E-13
Qualifications Based on Field Duplicate Precision
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Qualifier1	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	15000	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	630	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	2800	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	1800	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Aluminum	1500	ug/l	J	j-f, j-i
M119-0.5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	2.54	mg/kg	J	j-f
M119-0.5D_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	4.7	mg/kg	J	j-f
M119-10_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	3.51	mg/kg	J	j-f
M119-20_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	3.4	mg/kg	J	j-f
M119-32_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	25.2	mg/kg	J	j-f
M119-40_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	16.8	mg/kg	J	j-f
M119-5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	3.61	mg/kg	J	j-f
M119-50_03/14/2006	06C127	TH024	SW 846 6020A	SO	Arsenic	11.8	mg/kg	J	j-f
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	265	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	51	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Barium	85	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Barium	75	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Barium	58	ug/l	J	j-f, j-i
M119-0.5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	21500	mg/kg	J	j-f
M119-0.5D_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	36700	mg/kg	J	j-f
M119-10_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	29200	mg/kg	J	j-f
M119-20_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	18200	mg/kg	J	j-f
M119-32_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	68300	mg/kg	J	j-f
M119-40_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	4080	mg/kg	J	j-f
M119-5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	34300	mg/kg	J	j-f
M119-50_03/14/2006	06C127	TH024	SW 846 6020A	SO	Calcium	4770	mg/kg	J	j-f
M120-0.5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	35500	mg/kg	J	j-f
M120-10_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	28300	mg/kg	J	j-f
M120-20_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	22200	mg/kg	J	j-f
M120-30_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	7790	mg/kg	J	j-f
M120-40_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	31400	mg/kg	J	j-f
M120-40D_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	109000	mg/kg	J	j-f
M120-5_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	11400	mg/kg	J	j-f
M120-50_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	5660	mg/kg	J	j-f
M120-60_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	129000	mg/kg	J	j-f

Table E-13
Qualifications Based on Field Duplicate Precision
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)

Qualifier1	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M120-80_03/07/2006	06C071	TH018	SW 846 6020A	SO	Calcium	10500	mg/kg	J	j-f
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	140	mg/kg	J	j-f
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	26.9	mg/kg	J	j-f
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	23.6	mg/kg	J	j-f
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	16.3	mg/kg	J	j-f
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	46.7	mg/kg	J	j-f
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Copper	105	mg/kg	J	j-f
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	30.8	mg/kg	J	j-f
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	25.9	mg/kg	J	j-f
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	48.4	mg/kg	J	j-f
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	21.9	mg/kg	J	j-f
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	42.2	mg/kg	J	j-f
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	21.8	mg/kg	J	j-f
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	13.9	mg/kg	J	j-f
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	60.3	mg/kg	J	j-f
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	17.1	mg/kg	J	j-f
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	228	mg/kg	J	j-f
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Copper	30.5	mg/kg	J	j-f
M119-0.5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	30.8	mg/kg	J	j-f
M119-0.5D_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	17.4	mg/kg	J	j-f
M119-10_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	26.1	mg/kg	J	j-f
M119-20_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	23.6	mg/kg	J	j-f
M119-32_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	15.2	mg/kg	J	j-f
M119-40_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	29.7	mg/kg	J	j-f
M119-5_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	14.8	mg/kg	J	j-f
M119-50_03/14/2006	06C127	TH024	SW 846 6020A	SO	Copper	24.9	mg/kg	J	j-f
M-103A_03/20/2006	170033	TH040	SW 846 6010B	W	Iron	12	mg/l	J	j-f
TR-7A_03/20/2006	170033	TH040	SW 846 6010B	W	Iron	0.78	mg/l	J	j-f
TR-8_03/20/2006	170033	TH040	SW 846 6010B	W	Iron	3.0	mg/l	J	j-f
TR-8A_03/20/2006	170033	TH040	SW 846 6010B	W	Iron	1.9	mg/l	J	j-f
TR-8D_03/20/2006	170033	TH040	SW 846 6010B	W	Iron	1.2	mg/l	J	j-f
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.02	mg/kg	J	j-f
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	5.81	mg/kg	J	j-f
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	8.13	mg/kg	J	j-f
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.18	mg/kg	J	j-f

Table E-13
Qualifications Based on Field Duplicate Precision
Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Qualifier1	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.85	mg/kg	J	j-f
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Lead	4.87	mg/kg	J	j-f
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.1	mg/kg	J	j-f
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.75	mg/kg	J	j-f
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	5.69	mg/kg	J	j-f
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	9.71	mg/kg	J	j-f
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	7.8	mg/kg	J	j-f
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.81	mg/kg	J	j-f
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	6.06	mg/kg	J	j-f
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	7.77	mg/kg	J	j-f
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	8.59	mg/kg	J	j-f
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	7.35	mg/kg	J	j-f
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Lead	8.1	mg/kg	J	j-f
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	470	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	145	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	53	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	56	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Manganese	26	ug/l	J	j-f, j-i
M117-80_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	12	mg/kg	JZ	j-f, z-p
M117-80D_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	5	mg/kg	JZ	j-f, z-p
M-103A_03/20/2006	170033	TH040	SW 846 6010B	W	Titanium	0.39	mg/l	J	j-f
TR-7A_03/20/2006	170033	TH040	SW 846 6010B	W	Titanium	0.039	mg/l	J	j-f
TR-8_03/20/2006	170033	TH040	SW 846 6010B	W	Titanium	0.16	mg/l	J	j-f
TR-8A_03/20/2006	170033	TH040	SW 846 6010B	W	Titanium	0.11	mg/l	J	j-f
TR-8D_03/20/2006	170033	TH040	SW 846 6010B	W	Titanium	0.064	mg/l	J	j-f
M-103A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	77	ug/l	J	j-f, j-i
TR-7A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	58	ug/l	J	j-f, j-i
TR-8_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	75	ug/l	J	j-f, j-i
TR-8A_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	58	ug/l	J	j-f, j-i
TR-8D_03/20/2006	170033	TH040	SW 846 6020	W	Zinc	41	ug/l	J	j-f, j-i
M116-10_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	72.1	mg/kg	J	j-f
M116-20_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	33.2	mg/kg	J	j-f
M116-30_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	48.8	mg/kg	J	j-f
M116-40_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	31.8	mg/kg	J	j-f
M116-5_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	43.8	mg/kg	J	j-f

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Table E-13
Qualifications Based on Field Duplicate Precision
 Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Qualifier1	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M116-50_03/12/2006	06C120	TH023	SW 846 6020A	SO	Zinc	75.7	mg/kg	J	j-f
M117-0.5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	34.9	mg/kg	J	j-f
M117-10_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	35.5	mg/kg	J	j-f
M117-20_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	42.1	mg/kg	J	j-f
M117-20D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	41.1	mg/kg	J	j-f
M117-30_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	51.6	mg/kg	J	j-f
M117-40_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	37.3	mg/kg	J	j-f
M117-5_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	26.6	mg/kg	J	j-f
M117-50_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	93.6	mg/kg	J	j-f
M117-60_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	32.3	mg/kg	J	j-f
M117-80_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	227	mg/kg	J	j-f
M117-80D_03/11/2006	06C120	TH023	SW 846 6020A	SO	Zinc	46.7	mg/kg	J	j-f

Notes:
¹See Table E-1 for Data Validation Qualifiers
²See Table E-2 for reason code definitions
 SO - soil
 W - water
 mg/kg - milligram/kilogram
 mg/l - milligrams/liter
 ug/l - microgram/liter

Zinc results for M117-20 and M117-20D are not qualified for field duplicate precision.

Table E-14
Qualifications Based on Quantitation Problems
Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M-120_03/22/2006	G6E120362	TH052	SW 846 8290	W	1,2,3,4,5,6,7,8-Octachlorodibenzofuran	50	pg/L	U	u-q
M-120_03/22/2006	G6E120362	TH052	SW 846 8290	W	1,2,3,4,6,7,8-Heptachlorodibenzofuran	25	pg/L	U	u-q
M-120_03/22/2006	G6E120362	TH052	SW 846 8290	W	1,2,3,4,7,8,9-Heptachlorodibenzofuran	25	pg/L	U	u-q
M-120_03/22/2006	G6E120362	TH052	SW 846 8290	W	Total Heptachlorodibenzofuran	25	pg/L	U	u-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	j-m, j-d,uj-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	j-m, j-d,uj-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzofuran	2.7	pg/g	UJ	uj-d,uj-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	j-m, j-d,uj-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.53	pg/g	UJ	uj-m, uj-d,uj-q
0.5_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzo-p-dioxin	2.7	pg/g	UJ	uj-m,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.8	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,7,8-Hexachlorodibenzofuran	2.8	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	2,3,7,8-Tetrachlorodibenzofuran	0.55	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Heptachlorodibenzofuran	2.8	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzofuran	0.87	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Hexachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzofuran	2.8	pg/g	UJ	uj-i,uj-q
10_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i,uj-q
30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	5.6	pg/g	UJ	uj-i,uj-q
30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzofuran	2.8	pg/g	UJ	uj-i,uj-q
30_03/07/2006	G6C100424	TH017	SW 846 8290	SO	Total Pentachlorodibenzo-p-dioxin	2.8	pg/g	UJ	uj-i,uj-q

Notes:

¹See Table E-1 for Data Validation Qualifiers

²See Table E-2 for reason code definitions

SO - soil

W - water

pg/g - picogram/gram

pg/l - picogram/liter

Sample IDs are for location M-120

The results for Lead-212 for samples TR-10A, PUMP BREAK, TR-9A, TR-10, M-117, EB-3, M-120; and for Bismuth-212 in sample M-120 are qualified "U" with the reason code "uj-a"

Table E-15
Qualifications Based on Probable Contamination
Upgradient Investigation, Tronox Facility, Henderson Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M120-80_03/07/2006	06C071	TH018	SW 846 8015B	SO	Methanol	0.86	mg/kg	JZ	z-p
M120-0.5_03/07/2006	06C071	TH018	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M120-10_03/07/2006	06C071	TH018	SW 846 8015B	SO	Methanol	1.3	mg/kg	Z	z-p
M118-10_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol	0.62	mg/kg	JZ	z-p
M118-50_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol	0.77	mg/kg	JZ	z-p
M118-0.5_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M118-30_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol	3.1	mg/kg	Z	z-p
M118-5_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol	6.6	mg/kg	Z	z-p
M118-80_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol	2.9	mg/kg	Z	z-p
M121-30_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	0.92	mg/kg	JZ	z-p
M121-5_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	0.72	mg/kg	JZ	z-p
M121-10_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	2.3	mg/kg	Z	z-p
M121-50_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	23	mg/kg	Z	z-p
M121-5D_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	3.7	mg/kg	Z	z-p
M121-80_03/10/2006	06C106	TH021	SW 846 8015B	SO	Methanol	3.8	mg/kg	Z	z-p
M117-80_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	12	mg/kg	JZ	j-f, z-p
M117-80D_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	5	mg/kg	JZ	j-f, z-p
M116-0.5_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M116-0.5D_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M117-0.5_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M116-10_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol	1.2	mg/kg	Z	z-p
M116-30_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol	11	mg/kg	Z	z-p
M116-5_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol	2.4	mg/kg	Z	z-p
M116-50_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol	2.1	mg/kg	Z	z-p
M117-10_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	14	mg/kg	Z	z-p
M117-30_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	16	mg/kg	Z	z-p
M117-5_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	47	mg/kg	Z	z-p
M117-50_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol	20	mg/kg	Z	z-p

Notes:

¹See Table E-1 for Data Validation Qualifiers

²See Table E-2 for reason code definitions

SO - soil

W - water

mg/kg - milligram/kilogram

**Table E-16
Rejected Results**

Upgradient Investigation, Tronox Facility, Henderson, Nevada

Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M-120_03/22/2006	06C204	TH028	SW 846 8270C	W	3,3-Dichlorobenzidine		ug/l	R	r-l
EB-3_03/24/2006	06C239	TH030	SW 846 8270C	W	3,3-Dichlorobenzidine		ug/l	R	r-l
M118-80_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-40_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-60_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-10_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-30_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M118-20D_03/08/2006	06C081	TH019	SW 846 6020A	SO	Antimony		mg/kg	R	r-m
M120-0.5_03/07/2006	06C071	TH018	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M118-0.5_03/08/2006	06C081	TH019	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M117-0.5_03/11/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M116-0.5D_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M116-0.5_03/12/2006	06C120	TH023	SW 846 8015B	SO	Methanol		mg/kg	R	r-p
M120-80_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M120-50_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M120-30_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M120-10_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M120-0.5_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M120-5_03/07/2006	06C071	TH018	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
BLANK_03/08/2006	06C081	TH019	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M118-5_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
FB-1_03/08/2006	06C081	TH019	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M118-80_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M118-0.5_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M118-50_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M118-10_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M118-30_03/08/2006	06C081	TH019	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
EB-1_03/09/2006	06C096	TH020	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M121-60_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-5D_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-50_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c

**Table E-16
Rejected Results**

Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
M121-5_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-30_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-10_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-0.5_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-70_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M121-80_03/10/2006	06C106	TH021	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
TR-10A_03/13/2006	06C119	TH022	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M117-30_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-0.5D_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-10_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-0.5_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-50_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-5_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-50_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-10_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-80D_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-0.5_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-5_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M117-80_03/11/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M116-30_03/12/2006	06C120	TH023	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
EB-2_03/14/2006	06C127	TH024	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M119-0.5D_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M119-10_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M119-32_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M119-5_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M119-50_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
TR-9A_03/14/2006	06C127	TH024	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M119-0.5_03/14/2006	06C127	TH024	SW 846 8260B	SO	t-Butyl alcohol		ug/kg	R	r-c
M-103A_03/20/2006	06C199	TH025	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-7A_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c

**Table E-16
Rejected Results**

Upgradient Investigation, Tronox Facility, Henderson, Nevada

(continued)									
Sample ID	SDG	ENSR ID	Method	Matrix	Analyte	Result	Units	Qualifier ¹	Reason Code ²
BLANK_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-8D_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-8_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-8A_03/20/2006	06C187	TH026	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
BLANK_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M-103_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-9_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-10_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
TR-7_03/21/2006	06C193	TH027	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M-120_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M-118_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
BLANK_03/22/2006	06C204	TH028	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M-121_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
M-117_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
H-11_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
BLANK_03/23/2006	06C222	TH029	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
EB-3_03/24/2006	06C239	TH030	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
BLANK_03/24/2006	06C239	TH030	SW 846 8260B	W	t-Butyl alcohol		ug/l	R	r-c
Notes: ¹ See Table E-1 for Data Validation Qualifiers ² See Table E-2 for reason code definitions SO - soil W - water ug/kg - microgram/kilogram ug/l - microgram/liter									