

# TRONOX

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April 22, 2010

UIC Compliance Coordinator  
Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, NV 89701-5249

Subject: UIC Permit # UNEV94218 Permit – First Quarter 2010

Tronox LLC, Tronox, maintains Underground Injection Control (UIC) Permit #UNEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.4 (Attachment A), samples of the Lake Mead water added to the recharge trenches were collected and analyzed for the subject period. Please see Attachment 1 for the Permit's checklist, as well as an analytical summary of the injected water. The electronic analytical reports are included in Attachment 3.

Section I.A.4 (Attachment A) requires quarterly groundwater monitoring and collection of groundwater elevations. This information is provided in Attachment 2 with the supporting analytical reports provided in Attachment 3. Section I.A.4 (Attachment A) also requires monitoring of the injection and the extraction monthly rate averages. This information is included in Attachment 2 as well. Section I.A.4 (Attachment A) requires transmittal of a potentiometric surface map and this is included as Attachment 4. This map was developed based upon February 2010 water level information.

Please feel free to contact Susan Crowley at (702) 592-7727 or [susan.crowley@tronox.com](mailto:susan.crowley@tronox.com) if you have any questions regarding this information. Thank you.

Sincerely,



Fredrick R. Stater

## Overnight Mail

cc: Please see attached distribution sheet



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## Attachments

**Tronox. Adding value beyond the product.**

560 West Lake Mead Parkway, Henderson, Nevada 89015 • P.O. Box 55, Henderson, Nevada 89009

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# ATTACHMENT 1

Lake Mead Water  
Added to Recharge Trenches  
Analytical Information  
(Analytical reports included on Attachment 3 CD)



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Analytical Summary



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Documents\Word Doc  
UIC Permit - Attachment A Checklist

## UIC Permit UNEV94218 - 1st Q 10 - Injected Lake Mead Water Analytical Summary

<u>Sample Date</u>	<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>Method</u>
1/28/2010	Stabilized Water	Total Dissolved Solids (TDS)	610	mg/L	E160.1/SM2540C
1/28/2010	Stabilized Water	Boron Total ICAP	0.14	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Calcium Total ICAP	70	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Iron Total ICAP	ND	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Magnesium Total ICAP	28	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Potassium Total ICAP	4.5	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Sodium Total ICAP	86	mg/L	EPA 200.7
1/28/2010	Stabilized Water	Aluminum Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Antimony Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Arsenic Total ICAP/MS	2.6	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Barium Total ICAP/MS	120	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Cadmium Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Chromium Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Cobalt Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Copper Total ICAP/MS	140	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Lead Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Manganese Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Molybdenum Total ICAP/MS	4.861	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Nickel Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Selenium Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Silver Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Thallium Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Uranium ICAP/MS	3.716	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Vanadium Total ICAP/MS	ND	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Zinc Total ICAP/MS	120	ug/L	EPA 200.8
1/28/2010	Stabilized Water	Mercury	ND	ug/L	EPA 245.1
1/28/2010	Stabilized Water	Chloride	87	mg/L	EPA 300.0
1/28/2010	Stabilized Water	Nitrate as Nitrogen by IC	0.66	mg/L	EPA 300.0
1/28/2010	Stabilized Water	Nitrate as NO3 (calc)	2.9	mg/L	EPA 300.0
1/28/2010	Stabilized Water	Nitrite Nitrogen by IC	ND	mg/L	EPA 300.0
1/28/2010	Stabilized Water	Total Nitrate, Nitrite-N, CALC	0.66	mg/L	EPA 300.0
1/28/2010	Stabilized Water	Perchlorate	ND	ug/L	EPA 314.0
1/28/2010	Stabilized Water	1,1,1-Trichloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,1,2,2-Tetrachloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,1,2-Trichloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,1-Dichloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,1-Dichloroethylene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,2-Dichloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	1,2-Dichloropropane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	2-Butanone (MEK)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	2-Hexanone	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Acetone	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Acrolein (Screen)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Acrylonitrile (Screen)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Benzene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Bromodichloromethane	3.8	ug/L	EPA 624
1/28/2010	Stabilized Water	Bromoform	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Bromomethane (Methyl Bromide)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Carbon disulfide	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Carbon Tetrachloride	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Chlorobenzene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Chlorodibromomethane	2	ug/L	EPA 624
1/28/2010	Stabilized Water	Chloroethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Chloroform (Trichloromethane)	3.5	ug/L	EPA 624
1/28/2010	Stabilized Water	Chloromethane(Methyl Chloride)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	cis-1,2-Dichloroethylene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	cis-1,3-Dichloropropene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Dichlorodifluoromethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Dichloromethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Ethyl benzene	ND	ug/L	EPA 624

**UIC Permit UNEV94218 - 1st Q 10 - Injected Lake Mead Water Analytical Summary**

<u>Sample Date</u>	<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>Method</u>
1/28/2010	Stabilized Water	m,p-Xylenes	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	o-Xylene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Styrene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Tetrachloroethylene (PCE)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Tetrahydrofuran	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Toluene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	trans-1,2-Dichloroethylene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	trans-1,3-Dichloropropene	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Trichloroethylene (TCE)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Trichlorofluoromethane	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Vinyl Acetate	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Vinyl chloride (VC)	ND	ug/L	EPA 624
1/28/2010	Stabilized Water	Anion Sum - Calculated	10	meq/L	SM 1030E
1/28/2010	Stabilized Water	Cation Sum - Calculated	9.7	meq/L	SM 1030E
1/28/2010	Stabilized Water	Alkalinity in CaCO3 units	130	mg/L	SM 2320B
1/28/2010	Stabilized Water	Langelier Index - 25 degree	0.75	None	SM 2330B
1/28/2010	Stabilized Water	Langelier Index at 60 degrees C	1.2	None	SM 2330B
1/28/2010	Stabilized Water	pH of CaCO3 saturation(25C)	7.4	Units	SM 2330B
1/28/2010	Stabilized Water	pH of CaCO3 saturation(60C)	6.9	Units	SM 2330B
1/28/2010	Stabilized Water	Total Hardness as CaCO3 by ICP	290	mg/L	SM 2340B
1/28/2010	Stabilized Water	Fluoride	0.29	mg/L	SM 4500F-C
1/28/2010	Stabilized Water	Bicarb.Alkalinity as HCO3calc	160	mg/L	SM2330B
1/28/2010	Stabilized Water	Carbonate as CO3, Calculated	ND	mg/L	SM2330B
1/28/2010	Stabilized Water	Hydroxide as OH Calculated	ND	mg/L	SM2330B
1/28/2010	Stabilized Water	Specific Conductance, 25 C	970	umho/cm	SM2510B
1/28/2010	Stabilized Water	Carbon Dioxide,Free(25C)-Calc.	ND	mg/L	SM4500-CO2-D
1/28/2010	Stabilized Water	PH (H3=past HT not compliant)	8.1	Units	SM4500-HB
1/28/2010	Stabilized Water	Weak Acid Dissociable Cyanide	ND	mg/L	SM4500CN-I
1/29/2010	Stabilized Water	Chloride	85	mg/L	EPA 300.0
1/29/2010	Stabilized Water	Sulfate	230	mg/L	EPA 300.0
1/29/2010	Stabilized Water	Beryllium Total ICAP/MS	ND	ug/L	EPA 200.8

**ATTACHMENT A****UNEV 94218: Monitoring Report Requirements**

The Permittee shall submit **quarterly reports** on a continuous basis, **whether actively injecting or not**, which contain the following data (please check all information included in the attached report):

The UIC permit number and Attachment A.

The results of the chemical analyses as required by Table 1.

**Table 1**

PARAMETER	FREQUENCY	LOCATION	LIMITATIONS
VOCs, Total Perchlorate, and Profile I Analysis	Quarterly	Lake Mead Water at Discharge Pipe Prior to Injection	State and Federal Drinking Water Standards. Injectate must not degrade the Groundwater Quality
Total and Hexavalent Chromium	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M-95, and M-100	Monitor and Report
Total Perchlorate, Including NaClO <sub>4</sub> and NH <sub>4</sub> ClO <sub>4</sub>	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M-95, and M-100	Monitor and Report
TDS	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M-95, and M-100	Monitor and Report
Injection Rate into Injection trenches and Total Volume injected	Continuously	Discharge Pipe Prior to Injection	100 gpm monthly average. Must be equivalent or less than total extraction rate and volume
Extraction Rate and Total Volume extracted	Continuously	Extraction Wells located Upgradient of Injection Trenches	Cumulative extraction rate must be equivalent or greater than injection rate and volume
Groundwater Elevation and Depth	Quarterly	M-25, M-38, M-80, M-82, M-86, M-95, M-96, M-98, M-99, M-100, and M-102	Monitor and Report

For each month in the reporting period document injection rate (gpm), volume, date, and time injected of Lake Mead water into two injection trenches.

Water level, contour map illustrating groundwater gradient and flow direction.

Summary narrative report of monitoring activities for that reporting period. The report shall include, but not be limited to, any problems encountered with the injection system, the results of any tests performed during that period, and any changes noted to the groundwater. If no injection has occurred, report the non-injection status and the reason the system is not in operation.

## ATTACHMENT 2

### Groundwater Monitoring

#### Analytical Information (Analytical reports included on Attachment 3 CD)



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Documents\Excel Spr  
Water Levels – 1<sup>st</sup> Q 2010



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Documents\Excel Spr  
Summary of Monitoring Well Information

Tronox LLC  
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS  
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25 TOC: 1759.93		M-38 TOC: 1759.73		M-80 TOC: 1746.04		M-79 TOC: 1740.21		M-86 TOC: 1744.23		M-95 * TOC: 1693.49	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
Nov-04	32.63	1727.48	30.79	1728.94	29.68	1716.37	28.16	1714.37	27.34	1716.89		
Feb-05	31.96	1727.97	30.41	1729.32	27.16	1718.89	27.04	1715.49	25.39	1718.84		
May-05	32.73	1727.2	30.77	1728.96	27.62	1718.43	27.73	1714.8	28.73	1715.5		
Aug-05	30.24	1729.69	30.11	1729.62	27.38	1718.67	26.53	1716	26.18	1718.05		
Nov-05	31.09	1728.84	30.28	1729.45	25.51	1720.54	26.1	1716.43	27.98	1716.25		
Feb-06	30.93	1729.00	30.35	1729.38	25.33	1720.72	25.48	1717.05	29.23	1715		
May-06	31.15	1728.78	30.51	1729.22	24.61	1721.44	25.13	1717.4	29.34	1714.89		
Aug-06	32.06	1727.87	31.65	1728.08	24.97	1721.08	26.12	1716.41	29.24	1714.99		
Nov-06	32.18	1727.75	31.01	1728.72	25.84	1720.21	26.09	1716.44	29.89	1714.34		
Feb-07	32.56	1727.37	31.03	1728.7	27.31	1718.74	26.75	1715.78	30	1714.23		
May-07	32.97	1726.96	31.13	1728.6	29.06	1716.99	27.59	1714.94	31.09	1713.14		
Aug-07	33.44	1726.49	31.43	1728.3	31.46	1714.59	29.42	1713.11	32.51	1711.72		
Nov-07	33.97	1725.96	31.54	1728.19	31.9	1714.15	30.05	1712.48	34.13	1710.1		
Feb-08	33.82	1726.11	31.52	1728.21	32.92	1713.13	30.63	1711.9	35.19	1709.04		
May-08	33.82	1726.11	31.46	1728.27	24.91	1721.14	25.66	1716.87	32.33	1711.9		
Aug-08	33.64	1726.29	31.37	1728.36	25.15	1720.9	23.45	1719.08	damaged	-		
Nov-08	33.68	1726.25	31.37	1728.36	28.35	1717.7	24.96	1717.57	"	-	12.62	1680.87
Feb-09	33.61	1726.32	31.3	1728.43	29.77	1716.28	26.5	1716.03	"	-	12.63	1680.86
May-09	33.58	1726.35	31.37	1728.36	31.58	1714.47	28.33	1714.2	"	-	12.75	1680.74
Aug-09	33.52	1726.41	31.19	1728.54	28.98	1717.07	26.73	1715.8	"	-	damaged	-
Nov-09	33.27	1726.66	30.97	1728.76	26.14	1719.91	23.96	1718.57	"	-	"	-
Feb-10	33.28	1726.65	30.94	1728.79	24.31	1721.74	23	1719.53	"	-	"	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-

\* Monitoring Well M-94 was replaced by monitoring well M-95 in November 2008 correspondecne from NDEP. Future reports will list M-95.



Tronox LLC  
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS  
QUARTERLY GROUNDWATER ELEVATIONS (feet)

M-96 *		M-98		M-99		M-100		M-102	
TOC: 1693.49		TOC: 1731.91		TOC: 1730.74		TOC: 1730.93		TOC: 1740.24	
DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11.62	1681.9	33.02	1698.88	30.53	1700.21	28.83	1702.1	39.18	1701.06
10.2	1683.32	32.97	1698.93	29.96	1700.78	27.98	1702.95	37.73	1702.51
10.89	1682.63	32.98	1698.92	30.09	1700.65	28.47	1702.46	39.44	1700.8
9.79	1683.73	30.81	1701.09	28.74	1702	26.71	1704.22	36.51	1703.73
9.75	1683.77	30.4	1701.5	28.3	1702.44	26.22	1704.71	36.14	1704.1
10.1	1683.42	29.95	1701.95	27.97	1702.77	26	1704.93	36.48	1703.76
10.03	1683.49	28.66	1703.24	27.85	1702.89	25.98	1704.95	36.91	1703.33
10.1	1683.42	29.9	1702	27.89	1702.85	26.02	1704.91	37.33	1702.91
9.93	1683.59	30	1701.9	27.97	1702.77	26.27	1704.66	37.66	1702.58
10.25	1683.27	29.93	1701.97	28.07	1702.67	26.21	1704.72	37.76	1702.48
10.2	1683.32	30.11	1701.79	28.32	1702.42	26.77	1704.16	38.05	1702.19
10.47	1683.05	28.71	1703.19	29.57	1701.17	28.66	1702.27	39.38	1700.86
10.37	1683.15	33.13	1698.77	31.34	1699.4	30.47	1700.46	40.67	1699.57
11.32	1682.2	33.29	1698.61	32.68	1698.06	33.72	1697.21	41.99	1698.25
11.86	1681.66	33.19	1698.71	33.6	1697.14	32.72	1698.21	42.05	1698.19
10.46	1683.06	33.38	1698.52	31.92	1698.82	30.77	1700.16	43.31	1696.93
12.68	1680.84	33.1	1698.8	31.17	1699.57	30.42	1700.51	43.23	1697.01
12.76	1680.76	dry	-	31.58	1699.16	30.81	1700.12	43.11	1697.13
12.85	1680.67	dry	-	31.9	1698.84	31.27	1699.66	43.21	1697.03
13.02	1680.5	dry	-	32.66	1698.08	32.79	1698.14	43.45	1696.79
13.35	1680.17	dry	-	31.44	1699.3	30.23	1700.7	43.51	1696.73
12.99	1680.53	dry	-	30.31	1700.43	29.21	1701.72	43.31	1696.93
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

**UIC Permit UNEV94218 - 1st Q 10 - Monitoring Well Analytical Summary**

<u>Sample Date</u>	<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>Method</u>
2/3/2010	M-100	Total Dissolved Solids (TDS)	1400	mg/L	E160.1/SM2540C
2/3/2010	M-100	Chromium Total ICAP	0.1	mg/L	EPA 6010
2/3/2010	M-100	Hexavalent chromium (Cr VI)	0.12	mg/L	EPA 7196
2/3/2010	M-100	pH	8.1	Units	EPA 9040
2/4/2010	M-100	Perchlorate	5400	ug/L	EPA 314.0
2/3/2010	M-11	Total Dissolved Solids (TDS)	3100	mg/L	E160.1/SM2540C
2/3/2010	M-11	Perchlorate	37000	ug/L	EPA 314.0
2/3/2010	M-11	Chromium Total ICAP	3	mg/L	EPA 6010
2/3/2010	M-11	Hexavalent chromium (Cr VI)	3	mg/L	EPA 7196
2/3/2010	M-11	pH	8.2	Units	EPA 9040
2/3/2010	M-12A	Total Dissolved Solids (TDS)	6600	mg/L	E160.1/SM2540C
2/3/2010	M-12A	Perchlorate	200000	ug/L	EPA 314.0
2/3/2010	M-12A	Chromium Total ICAP	9.3	mg/L	EPA 6010
2/3/2010	M-12A	Hexavalent chromium (Cr VI)	9.4	mg/L	EPA 7196
2/3/2010	M-12A	pH	8.3	Units	EPA 9040
2/4/2010	M-36	Total Dissolved Solids (TDS)	15000	mg/L	E160.1/SM2540C
2/4/2010	M-36	Perchlorate	1400000	ug/L	EPA 314.0
2/4/2010	M-36	Chromium Total ICAP	31	mg/L	EPA 6010
2/4/2010	M-36	Hexavalent chromium (Cr VI)	33	mg/L	EPA 7196
2/4/2010	M-36	pH	7.7	Units	EPA 9040
2/2/2010	M-37	Total Dissolved Solids (TDS)	4400	mg/L	E160.1/SM2540C
2/2/2010	M-37	Chromium Total ICAP	0.023	mg/L	EPA 6010
2/2/2010	M-37	Hexavalent chromium (Cr VI)	ND	mg/L	EPA 7196
2/2/2010	M-37	pH	7.5	Units	EPA 9040
2/3/2010	M-37	Perchlorate	1700000	ug/L	EPA 314.0
2/1/2010	M-44	Total Dissolved Solids (TDS)	8400	mg/L	E160.1/SM2540C
2/1/2010	M-44	Perchlorate	720000	ug/L	EPA 314.0
2/1/2010	M-44	Chromium Total ICAP	0.74	mg/L	EPA 6010
2/1/2010	M-44	pH	7.6	Units	EPA 9040
2/3/2010	M-84	Total Dissolved Solids (TDS)	1300	mg/L	E160.1/SM2540C
2/3/2010	M-84	Chromium Total ICAP	ND	mg/L	EPA 6010
2/3/2010	M-84	Hexavalent chromium (Cr VI)	0.009	mg/L	EPA 7196
2/3/2010	M-84	pH	8	Units	EPA 9040
2/4/2010	M-84	Perchlorate	1100	ug/L	EPA 314.0
2/1/2010	M-95	Total Dissolved Solids (TDS)	6800	mg/L	E160.1/SM2540C
2/1/2010	M-95	Perchlorate	490000	ug/L	EPA 314.0
2/1/2010	M-95	Chromium Total ICAP	0.9	mg/L	EPA 6010
2/1/2010	M-95	Hexavalent chromium (Cr VI)	0.92	mg/L	EPA 7196
2/1/2010	M-95	pH	7.7	Units	EPA 9040

Tronox LLC  
Henderson, Nevada Facility

UIC PERMIT UNEV94218  
EXTRACTION AND INJECTION RATES (gpm)

MONTH	EXTRACTION RATE (gpm)	INJECTION RATE (gpm)		
	Monthly Average	Monthly Average	Daily High	Daily Low
January 2010	71.8	67.0	75.0	18.1
February 2010	75.3	68.7	76.5	36.8
March 2010	72.9	71.3	75.5	66.7

### ATTACHMENT 3

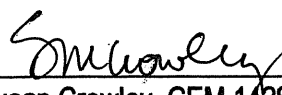


Injected Water January 2010

February 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> 2010 GW Monitoring

#### Supporting Electronic Analytical Reports UIC UNEV94218 Report – 1<sup>st</sup> Q 10

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein, exceptions and corresponding justifications are provided below.

  
Susan Crowley, CEM 1428 exp 3-8-11

4-27-10  
Date



**MWH**

**LABORATORIES**

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## Laboratory Report

for

Tronox LLC  
PO Box 55  
Henderson, NV 89009  
Attention: Susan Crowley  
Fax: 702-651-2310

Date of Issue  
02/16/2010

*Linda Geddes*  
MWH LABORATORIES



Report#: 324755  
Project: CWA-RCRA  
Group: STABILIZED WATER

LXG: Linda Geddes  
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
 Phone 626-386-1100/Fax: 626-386-1101

### Acknowledgement of Samples Received

**Tronox LLC**

PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

Customer Code: TRONOX  
 Group #: 324755  
 Project #: CWA-RCRA  
 Sample Group: STABILIZED WATER  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **January 29, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201001290110	Stabilized Water	28-Jan-2010 1000
	@ANIONS28	@ANIONS48
	@ICPMS	@ICP
	Bicarb. Alkalinity as HCO <sub>3</sub> , calc	Alkalinity in CaCO <sub>3</sub> units
	Cation Sum - Calculated	Carbon Dioxide, Free(25C)-Calc.
	Hydroxide as OH, Calculated	Cation/Anion Difference
	Mercury	Langelier Index - 25 degree
	pH of CaCO <sub>3</sub> saturation(60C)	Langier Index at 60 degrees C
	Total Hardness as CaCO <sub>3</sub> by ICP	PH (H3=past HT not compliant)
	Perchlorate	Specific Conductance
		Total Dissolved Solid (TDS)
		Boron Total ICAP
		Weak Acid Dissociable Cyanide

### Test Description

- @ANIONS28 -- Chloride, Sulfate by EPA 300.0
- @ANIONS48 -- Nitrate, Nitrite by EPA 300.0
- @ICP -- ICP Metals
- @ICPMS -- ICPMS Metals
- @VOAPP -- Volatile Organics by EPA 624







From: Origin ID: LASA (702) 651-2230  
Tronox  
Tronox  
8000 W. Lake Mead Parkway

Henderson, NV 89015



J10100912170124

Ship Date: 28JAN10  
ActWgt: 8.0 LB  
CAD: 100845654/INET3010

Delivery Address Bar Code



Ref # MSO #144098  
Invoice #  
PO #  
Dept #

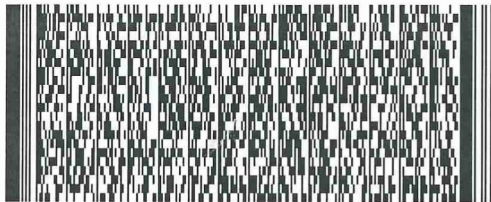
SHIP TO: (626) 568-6400 BILL SENDER

Attn: Sample Receiving  
Montgomery Watson Labs  
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

TRK# 7932 2343 9883  
0201

FRI - 29 JAN A1  
PRIORITY OVERNIGHT



91016

CA-US

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585C1/68F9/5FE6

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February 16, 2010

Ms. Susan Crowley  
Tronox  
PO Box 55  
Henderson, NV 89009

Subject: Case Narrative report 324755

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on January 29, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

(EPA 300.0) Eleven samples instead of the method required ten were analyzed before a continuing calibration verification (CCV) standard was analyzed. No impact to data as the CCV was acceptable.

Other Observations:

There were no other observations on this sample set.

Sincerely,

Linda Geddes  
Project Manager



**MWH**

**LABORATORIES**

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Tronox LLC  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

**Laboratory Comments**  
**Report: #324755**

---

**Client specific Comments**

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

*Hinda Seddes*

Signature: \_\_\_\_\_

**Group Comments**

(EPA 300.0) Eleven samples instead of the method required ten were analyzed before a continuing calibration verification (CCV) standard was analyzed. No impact to data as the CCV was acceptable.



# MWH

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Laboratory  
 Hits Report: 324755

Tronox LLC  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received on:  
 01/29/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201001290110</b>		<b><u>Stabilized Water</u></b>				
02/08/2010	16:21	Alkalinity in CaCO3 units	130		mg/L	2
02/01/2010	10:19	Anion Sum - Calculated	10		meq/L	0.001
02/01/2010	22:10	Arsenic Total ICAP/MS	2.6	10	ug/L	1
02/01/2010	22:10	Barium Total ICAP/MS	120	2000	ug/L	2
02/02/2010	01:10	Bicarb.Alkalinity as HCO3calc	160		mg/L	2
02/03/2010	19:25	Boron Total ICAP	0.14		mg/L	0.05
02/01/2010	16:36	Bromodichloromethane	3.8		ug/L	0.5
02/03/2010	19:25	Calcium Total ICAP	70		mg/L	1
02/04/2010	08:53	Cation Sum - Calculated	9.7		meq/L	0.001
01/29/2010	19:25	Chloride	87	250	mg/L	2
02/01/2010	16:36	Chlorodibromomethane	2.0		ug/L	0.5
02/01/2010	16:36	Chloroform (Trichloromethane)	3.5		ug/L	0.5
02/01/2010	22:10	Copper Total ICAP/MS	140	1300	ug/L	2
02/03/2010	12:55	Fluoride	0.29	4	mg/L	0.05
02/02/2010	01:10	Langelier Index - 25 degree	0.75		None	
02/02/2010	01:10	Langelier Index at 60 degrees C	1.2		None	
02/03/2010	19:25	Magnesium Total ICAP	28		mg/L	0.1
01/29/2010	19:25	Nitrate as Nitrogen by IC	0.66	10	mg/L	0.2
01/29/2010	19:25	Nitrate as NO3 (calc)	2.9	45	mg/L	0.88
01/29/2010	16:12	PH (H3=past HT not compliant)	8.1		Units	0.1
02/03/2010	01:08	pH of CaCO3 saturation(25C)	7.4		Units	0.1
02/02/2010	01:09	pH of CaCO3 saturation(60C)	6.9		Units	0.1
02/03/2010	19:25	Potassium Total ICAP	4.5		mg/L	1
02/03/2010	19:25	Sodium Total ICAP	86		mg/L	1
01/29/2010	16:30	Specific Conductance, 25 C	970		umho/cm	2
02/01/2010	15:37	Sulfate	230	250	mg/L	2.5
01/29/2010	17:08	Total Dissolved Solids (TDS)	610	500	mg/L	10
02/04/2010	08:53	Total Hardness as CaCO3 by ICP	290		mg/L	3
01/29/2010	19:25	Total Nitrate, Nitrite-N, CALC	0.66		mg/L	0.1
02/01/2010	22:10	Zinc Total ICAP/MS	120	5000	ug/L	20



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**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

**Laboratory Data**  
**Report: 324755**

Samples Received on:  
01/29/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>Stabilized Water (201001290110)</b>						<b>Sampled on 01/28/2010 1000</b>		
				<b>SM 2330B - pH of CaCO3 saturation(60C)</b>				
	02/02/2010	01:09	(SM 2330B)	pH of CaCO3 saturation(60C)	6.9	Units	0.1	1
				<b>SM4500CN-I - Weak Acid Dissociable Cyanide</b>				
2/5/2010	02/05/2010	19:32	541500 (SM4500CN-I)	Weak Acid Dissociable Cyanide	ND	mg/L	0.005	1
				<b>SM 2330B - Langelier Index - 25 degree</b>				
	02/02/2010	01:10	(SM 2330B)	Langelier Index - 25 degree	0.75	None		1
				<b>SM 1030E - Anion Sum - Calculated</b>				
	02/01/2010	10:19	(SM 1030E)	Anion Sum - Calculated	10	meq/L	0.001	1
				<b>SM 1030E - Cation Sum - Calculated</b>				
	02/04/2010	08:53	(SM 1030E)	Cation Sum - Calculated	9.7	meq/L	0.001	1
				<b>SM 2330B - pH of CaCO3 saturation(25C)</b>				
	02/03/2010	01:08	(SM 2330B)	pH of CaCO3 saturation(25C)	7.4	Units	0.1	1
				<b>SM 2330B - Langlier Index at 60 degrees C</b>				
	02/02/2010	01:10	(SM 2330B)	Langelier Index at 60 degrees C	1.2	None		1
				<b>SM 1030E - Cation/Anion Difference</b>				
	02/02/2010	01:10	(SM 1030E)	Cation/Anion Difference	1.7	%		1
				<b>SM 2340B - Total Hardness as CaCO3 by ICP</b>				
	02/04/2010	08:53	(SM 2340B)	Total Hardness as CaCO3 by ICP	290	mg/L	3	1
				<b>EPA 200.8 - ICPMS Metals</b>				
	02/01/2010	22:10	540185 (EPA 200.8)	Aluminum Total ICAP/MS	ND	ug/L	20	1
	02/01/2010	22:10	540185 (EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
	02/01/2010	22:10	540185 (EPA 200.8)	Arsenic Total ICAP/MS	2.6	ug/L	1	1
	02/01/2010	22:10	540185 (EPA 200.8)	Barium Total ICAP/MS	120	ug/L	2	1
	02/02/2010	20:10	540386 (EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
	02/01/2010	22:10	540185 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	02/01/2010	22:10	540185 (EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
	02/01/2010	22:10	540185 (EPA 200.8)	Copper Total ICAP/MS	140	ug/L	2	1
	02/01/2010	22:10	540185 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	02/01/2010	22:10	540185 (EPA 200.8)	Manganese Total ICAP/MS	ND	ug/L	2	1
	02/01/2010	22:10	540185 (EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
	02/01/2010	22:10	540185 (EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
	02/01/2010	22:10	540185 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	02/01/2010	22:10	540185 (EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1

Rounding on totals after summation.  
(c) - indicates calculated results



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 1 800 566 LABS (1 800 566 5227)

Laboratory Data  
 Report: 324755

**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received on:  
 01/29/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	02/01/2010	22:10	540185 (EPA 200.8)	Zinc Total ICAP/MS	120	ug/L	20	1
	<b>EPA 200.7 - ICP Metals</b>							
	02/03/2010	19:25	540317 (EPA 200.7)	Boron Total ICAP	0.14	mg/L	0.05	1
	02/03/2010	19:25	540317 (EPA 200.7)	Calcium Total ICAP	70	mg/L	1	1
	02/03/2010	19:25	540317 (EPA 200.7)	Iron Total ICAP	ND	mg/L	0.02	1
	02/03/2010	19:25	540317 (EPA 200.7)	Magnesium Total ICAP	28	mg/L	0.1	1
	02/03/2010	19:25	540317 (EPA 200.7)	Potassium Total ICAP	4.5	mg/L	1	1
	02/03/2010	19:25	540317 (EPA 200.7)	Sodium Total ICAP	86	mg/L	1	1
	<b>EPA 245.1 - Mercury</b>							
2/5/2010	02/05/2010	22:38	541105 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
	<b>EPA 300.0 - Nitrate, Nitrite by EPA 300.0</b>							
	01/29/2010	19:25	540027 (EPA 300.0)	Nitrate as Nitrogen by IC	0.66	mg/L	0.2	2
	01/29/2010	19:25	540027 (EPA 300.0)	Nitrate as NO3 (calc)	2.9	mg/L	0.88	2
	01/29/2010	19:25	540027 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.1	2
	01/29/2010	19:25	540027 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	0.66	mg/L	0.1	1
	<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>							
	01/29/2010	19:25	540059 (EPA 300.0)	Chloride	87	mg/L	2	2
	02/01/2010	15:37	540297 (EPA 300.0)	Sulfate	230	mg/L	2.5	5
	<b>EPA 314.0 - Perchlorate</b>							
	02/03/2010	15:36	540634 (EPA 314.0)	Perchlorate	ND	ug/L	4	1
	<b>EPA 624 - Volatile Organics by EPA 624</b>							
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	2-Hexanone	ND	ug/L	10	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Acetone	ND	ug/L	10	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Acrolein (Screen)	ND	ug/L	50	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Acrylonitrile (Screen)	ND	ug/L	50	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Benzene	ND	ug/L	0.5	1

Rounding on totals after summation.  
 (c) - indicates calculated results



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Laboratory Data  
 Report: 324755

**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received on:  
 01/29/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Bromodichloromethane	3.8	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Bromoform	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Chlorodibromomethane	2.0	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Chloroethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Chloroform (Trichloromethane)	3.5	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Dichloromethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	o-Xylene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Styrene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Toluene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Vinyl Acetate	ND	ug/L	10	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	1,2-Dichloroethane-d4	101	%		1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	4-Bromofluorobenzene	105	%		1
2/1/2010	02/01/2010	16:36	540353 (EPA 624)	Toluene-d8	96	%		1

**SM2330B - Hydroxide as OH, Calculated**

Rounding on totals after summation.  
 (c) - indicates calculated results



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**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

**Laboratory Data  
Report: 324755**

Samples Received on:  
01/29/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	02/01/2010	11:19	(SM2330B)	Hydroxide as OH Calculated	ND	mg/L	2	1
				<b>SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.</b>				
	02/02/2010	01:09	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	ND	mg/L	2	1
				<b>SM 4500F-C - Fluoride</b>				
	02/03/2010	12:55	540318 (SM 4500F-C)	Fluoride	0.29	mg/L	0.05	1
				<b>SM2330B - Carbonate as CO3, Calculated</b>				
	02/02/2010	01:10	(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
				<b>SM 2320B - Alkalinity in CaCO3 units</b>				
	02/08/2010	16:21	540848 (SM 2320B)	Alkalinity in CaCO3 units	130	mg/L	2	1
				<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>				
1/29/2010	01/29/2010	17:08	540454 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	610	mg/L	10	1
				<b>SM4500-HB - PH (H3=past HT not compliant)</b>				
	01/29/2010	16:12	540025 (SM4500-HB)	PH (H3=past HT not compliant)	8.1	Units	0.1	1
				<b>SM2330B - Bicarb.Alkalinity as HCO3,calc</b>				
	02/02/2010	01:10	(SM2330B)	Bicarb.Alkalinity as HCO3calc	160	mg/L	2	1
				<b>SM2510B - Specific Conductance</b>				
	01/29/2010	16:30	539976 (SM2510B)	Specific Conductance, 25 C	970	umho/cm	2	1

Rounding on totals after summation.  
(c) - indicates calculated results





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Laboratory  
QC Summary: 324755

Tronox LLC

**QC Ref # 539976 - Specific Conductance**

201001290110 Stabilized Water

**Analysis Date: 01/29/2010**

Analyzed by: SAR

**QC Ref # 540025 - PH (H3=past HT not compliant)**

201001290110 Stabilized Water

**Analysis Date: 01/29/2010**

Analyzed by: SAR

**QC Ref # 540027 - Nitrate, Nitrite by EPA 300.0**

201001290110 Stabilized Water

**Analysis Date: 01/29/2010**

Analyzed by: SXX

**QC Ref # 540059 - Chloride, Sulfate by EPA 300.0**

201001290110 Stabilized Water

**Analysis Date: 01/29/2010**

Analyzed by: SXX

**QC Ref # 540185 - ICPMS Metals**

201001290110 Stabilized Water

**Analysis Date: 02/01/2010**

Analyzed by: DYH

**QC Ref # 540297 - Chloride, Sulfate by EPA 300.0**

201001290110 Stabilized Water

**Analysis Date: 02/01/2010**

Analyzed by: SXX

**QC Ref # 540317 - ICP Metals**

201001290110 Stabilized Water

**Analysis Date: 02/03/2010**

Analyzed by: VXT

**QC Ref # 540318 - Fluoride**

201001290110 Stabilized Water

**Analysis Date: 02/03/2010**

Analyzed by: YXP

**QC Ref # 540353 - Volatile Organics by EPA 624**

201001290110 Stabilized Water

**Analysis Date: 02/01/2010**

Analyzed by: MCB

**QC Ref # 540386 - ICPMS Metals**

201001290110 Stabilized Water

**Analysis Date: 02/02/2010**

Analyzed by: DYH

**QC Ref # 540454 - Total Dissolved Solids (TDS)**

201001290110 Stabilized Water

**Analysis Date: 01/29/2010**

Analyzed by: JRF

**QC Ref # 540634 - Perchlorate**

201001290110 Stabilized Water

**Analysis Date: 02/03/2010**

Analyzed by: SZZ

**QC Ref # 540848 - Alkalinity in CaCO3 units**

201001290110 Stabilized Water

**Analysis Date: 02/08/2010**

Analyzed by: SXX

**QC Ref # 541105 - Mercury**

201001290110 Stabilized Water

**Analysis Date: 02/05/2010**

Analyzed by: CSK

**QC Ref # 541500 - Weak Acid Dissociable Cyanide**

201001290110 Stabilized Water

**Analysis Date: 02/05/2010**

Analyzed by: AZS



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 QC Report: 324755

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 539976 - Specific Conductance by SM2510B</b>					<b>Analysis Date: 01/29/2010</b>				
DUP1_201001290084	Specific Conductance	380		376	umho/cm		(0-20)	20	0.80
LCS1	Specific Conductance		1000	987	umho/cm	99	(90-110)		
LCS2	Specific Conductance		1000	991	umho/cm	99	(90-110)	20	0.40
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		2.0	2.02	umho/cm	101	(50-150)		
<b>QC Ref# 540025 - PH (H3=past HT not compliant) by SM4500-HB</b>					<b>Analysis Date: 01/29/2010</b>				
DUP1_201001300105	PH (H3=past HT not compliant)	7.7		7.66	Units		(0-20)	20	0.26
DUP2_201001290084	PH (H3=past HT not compliant)	8.2		8.14	Units		(0-20)		
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.04	Units	101	(98-102)	20	0.50
<b>QC Ref# 540027 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 01/29/2010</b>				
LCS1	Nitrate as Nitrogen by IC		2.5	2.36	mg/L	95	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.37	mg/L	95	(90-110)	20	0.42
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0462	mg/L	92	(50-150)		
MS_201001280028	Nitrate as Nitrogen by IC	2.6	1.3	5.11	mg/L	102	(90-110)		
MS_201001290022	Nitrate as Nitrogen by IC	0.25	1.3	1.52	mg/L	102	(90-110)		
MSD_201001280028	Nitrate as Nitrogen by IC	2.6	1.3	5.13	mg/L	103	(90-110)	20	0.98
MSD_201001290022	Nitrate as Nitrogen by IC	0.25	1.3	1.51	mg/L	101	(90-110)	20	0.99
LCS1	Nitrite Nitrogen by IC		1.0	0.971	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.971	mg/L	97	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0467	mg/L	93	(50-150)		
MS_201001280028	Nitrite Nitrogen by IC	ND	0.5	0.967	mg/L	97	(90-110)		
MS_201001290022	Nitrite Nitrogen by IC	ND	0.5	0.517	mg/L	103	(90-110)		
MSD_201001280028	Nitrite Nitrogen by IC	ND	0.5	0.955	mg/L	96	(90-110)	20	1.3
MSD_201001290022	Nitrite Nitrogen by IC	ND	0.5	0.513	mg/L	103	(90-110)	20	0.0
<b>QC Ref# 540059 - Chloride, Sulfate by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 01/29/2010</b>				
LCS1	Chloride		25	24.7	mg/L	99	(90-110)		
LCS2	Chloride		25	24.6	mg/L	98	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.459	mg/L	92	(50-150)		
MS_201001280028	Chloride	83	13	107	mg/L	95	(90-110)		
MSD_201001280028	Chloride	83	13	107	mg/L	95	(90-110)	10	0.32
LCS1	Sulfate		50	48.3	mg/L	97	(90-110)		

Spike recovery is already corrected for native results.  
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.  
 (S) Indicates surrogate compound.  
 (I) Indicates internal standard compound.  
 RPD not calculated for LCS2 when different a concentration than LCS1 is used  
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 324755

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Sulfate		50	48.3	mg/L	97	(90-110)	20	0.0
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.999	mg/L	100	(50-150)		
MRLW	Sulfate		0.25	0.275	mg/L	110	(50-150)		
MS_201001280028	Sulfate	120	25	169	mg/L	104	(90-110)		
MSD_201001280028	Sulfate	120	25	168	mg/L	103	(90-110)	10	0.97

### QC Ref# 540185 - ICPMS Metals by EPA 200.8

Analysis Date: 02/01/2010

LCS1	Aluminum Total ICAP/MS		200	204	ug/L	102	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	203	ug/L	102	(85-115)	20	0.49
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	22.9	ug/L	114	(50-150)		
MS_201001280260	Aluminum Total ICAP/MS	ND	200	199	ug/L	100	(70-130)		
MS2_201001290110	Aluminum Total ICAP/MS	ND	200	190	ug/L	94	(70-130)		
MSD_201001280260	Aluminum Total ICAP/MS	ND	200	201	ug/L	101	(70-130)	20	1.5
MSD2_201001290110	Aluminum Total ICAP/MS	ND	200	191	ug/L	95	(70-130)	20	0.64
LCS1	Antimony Total ICAP/MS		50	50.7	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.0	ug/L	102	(85-115)	20	0.59
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.1	ug/L	110	(50-150)		
MS_201001280260	Antimony Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)		
MS2_201001290110	Antimony Total ICAP/MS	ND	50	50.5	ug/L	100	(70-130)		
MSD_201001280260	Antimony Total ICAP/MS	ND	50	51.1	ug/L	102	(70-130)	20	0.99
MSD2_201001290110	Antimony Total ICAP/MS	ND	50	52.3	ug/L	104	(70-130)	20	3.9
LCS1	Arsenic Total ICAP/MS		20	20.3	ug/L	102	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	1.5
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.03	ug/L	104	(50-150)		
MS_201001280260	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MS2_201001290110	Arsenic Total ICAP/MS	2.6	20	23.6	ug/L	105	(70-130)		
MSD_201001280260	Arsenic Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	2.0
MSD2_201001290110	Arsenic Total ICAP/MS	2.6	20	23.9	ug/L	107	(70-130)	20	1.9
LCS1	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.42	ug/L	121	(50-150)		
MS_201001280260	Barium Total ICAP/MS	ND	100	99.4	ug/L	99	(70-130)		
MS2_201001290110	Barium Total ICAP/MS	120	100	220	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 324755

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201001280260	Barium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.6
MSD2_201001290110	Barium Total ICAP/MS	120	100	226	ug/L	106	(70-130)	20	5.8
LCS1	Beryllium Total ICAP/MS		5.0	5.07	ug/L	101	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.11	ug/L	102	(85-115)	20	0.79
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201001280260	Beryllium Total ICAP/MS	ND	5.0	4.99	ug/L	100	(70-130)		
MSD_201001280260	Beryllium Total ICAP/MS	ND	5.0	5.11	ug/L	102	(70-130)	20	2.1
LCS1	Cadmium Total ICAP/MS		20	20.5	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.534	ug/L	107	(50-150)		
MS_201001280260	Cadmium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201001290110	Cadmium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)		
MSD_201001280260	Cadmium Total ICAP/MS	ND	20	21.3	ug/L	107	(70-130)	20	2.8
MSD2_201001290110	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)	20	3.4
LCS1	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.98
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.08	ug/L	109	(50-150)		
MS_201001280260	Chromium Total ICAP/MS	ND	100	99.1	ug/L	99	(70-130)		
MS2_201001290110	Chromium Total ICAP/MS	ND	100	98.6	ug/L	98	(70-130)		
MSD_201001280260	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	1.9
MSD2_201001290110	Chromium Total ICAP/MS	ND	100	99.4	ug/L	99	(70-130)	20	0.92
LCS1	Cobalt Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.16	ug/L	108	(50-150)		
MS_201001280260	Cobalt Total ICAP/MS	ND	100	98.0	ug/L	98	(70-130)		
MS2_201001290110	Cobalt Total ICAP/MS	ND	100	94.1	ug/L	94	(70-130)		
MSD_201001280260	Cobalt Total ICAP/MS	ND	100	99.6	ug/L	100	(70-130)	20	1.6
MSD2_201001290110	Cobalt Total ICAP/MS	ND	100	96.7	ug/L	97	(70-130)	20	2.7
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.98
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.11	ug/L	106	(50-150)		
MS_201001280260	Copper Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201001290110	Copper Total ICAP/MS	140	100	238	ug/L	94	(70-130)		

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 324755

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201001280260	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.99
MSD2_201001290110	Copper Total ICAP/MS	140	100	242	ug/L	98	(70-130)	20	3.3
LCS1	Lead Total ICAP/MS		20	21.5	ug/L	107	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.5	ug/L	107	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.541	ug/L	108	(50-150)		
MS_201001280260	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201001290110	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201001280260	Lead Total ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	4.0
MSD2_201001290110	Lead Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)	20	3.9
LCS1	Manganese Total ICAP/MS		50	50.7	ug/L	101	(85-115)		
LCS2	Manganese Total ICAP/MS		50	51.7	ug/L	103	(85-115)	20	2.0
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.16	ug/L	108	(50-150)		
MS_201001280260	Manganese Total ICAP/MS	ND	50	49.4	ug/L	99	(70-130)		
MS2_201001290110	Manganese Total ICAP/MS	ND	50	49.8	ug/L	98	(70-130)		
MSD_201001280260	Manganese Total ICAP/MS	ND	50	50.5	ug/L	101	(70-130)	20	2.3
MSD2_201001290110	Manganese Total ICAP/MS	ND	50	50.5	ug/L	99	(70-130)	20	1.4
LCS1	Molybdenum Total ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.4	ug/L	99	(85-115)	20	0.71
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.11	ug/L	105	(50-150)		
MS_201001280260	Molybdenum Total ICAP/MS	ND	100	94.1	ug/L	94	(70-130)		
MS2_201001290110	Molybdenum Total ICAP/MS	4.861	100	101	ug/L	96	(70-130)		
MSD_201001280260	Molybdenum Total ICAP/MS	ND	100	96.2	ug/L	96	(70-130)	20	2.2
MSD2_201001290110	Molybdenum Total ICAP/MS	4.861	100	105	ug/L	100	(70-130)	20	4.3
LCS1	Nickel Total ICAP/MS		50	51.4	ug/L	103	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.9	ug/L	104	(85-115)	20	0.97
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.26	ug/L	105	(50-150)		
MS_201001280260	Nickel Total ICAP/MS	ND	50	50.1	ug/L	100	(70-130)		
MS2_201001290110	Nickel Total ICAP/MS	ND	50	48.7	ug/L	94	(70-130)		
MSD_201001280260	Nickel Total ICAP/MS	ND	50	51.5	ug/L	103	(70-130)	20	3.0
MSD2_201001290110	Nickel Total ICAP/MS	ND	50	49.7	ug/L	96	(70-130)	20	2.1
LCS1	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.88	ug/L	98	(50-150)		

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(S) Indicates surrogate compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
 QC Report: 324755

Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201001280260	Selenium Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)		
MS2_201001290110	Selenium Total ICAP/MS	ND	20	23.0	ug/L	103	(70-130)		
MSD_201001280260	Selenium Total ICAP/MS	ND	20	21.5	ug/L	107	(70-130)	20	1.9
MSD2_201001290110	Selenium Total ICAP/MS	ND	20	23.3	ug/L	105	(70-130)	20	1.9
LCS1	Silver Total ICAP/MS		50	49.1	ug/L	98	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.3	ug/L	99	(85-115)	20	0.41
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.524	ug/L	105	(50-150)		
MS_201001280260	Silver Total ICAP/MS	ND	50	47.8	ug/L	96	(70-130)		
MS2_201001290110	Silver Total ICAP/MS	ND	50	42.3	ug/L	85	(70-130)		
MSD_201001280260	Silver Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)	20	2.5
MSD2_201001290110	Silver Total ICAP/MS	ND	50	42.0	ug/L	84	(70-130)	20	0.71
LCS1	Thallium Total ICAP/MS		20	21.7	ug/L	109	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.7	ug/L	109	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201001280260	Thallium Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)		
MS2_201001290110	Thallium Total ICAP/MS	ND	20	20.5	ug/L	103	(70-130)		
MSD_201001280260	Thallium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)	20	3.7
MSD2_201001290110	Thallium Total ICAP/MS	ND	20	21.4	ug/L	107	(70-130)	20	3.8
LCS1	Uranium ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Uranium ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.99
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201001280260	Uranium ICAP/MS	ND	20	24.9	ug/L	125	(70-130)		
MS2_201001290110	Uranium ICAP/MS	3.716	20	20.5	ug/L	84	(70-130)		
MSD_201001280260	Uranium ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	9.2
MSD2_201001290110	Uranium ICAP/MS	3.716	20	20.2	ug/L	83	(70-130)	20	1.7
LCS1	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.18	ug/L	106	(50-150)		
MS_201001280260	Vanadium Total ICAP/MS	ND	100	93.0	ug/L	93	(70-130)		
MS2_201001290110	Vanadium Total ICAP/MS	ND	100	102	ug/L	100	(70-130)		
MSD_201001280260	Vanadium Total ICAP/MS	ND	100	95.2	ug/L	95	(70-130)	20	2.2
MSD2_201001290110	Vanadium Total ICAP/MS	ND	100	103	ug/L	101	(70-130)	20	1
LCS1	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0

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 QC Report: 324755

Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.7	ug/L	104	(50-150)		
MS_201001280260	Zinc Total ICAP/MS	ND	100	107	ug/L	107	(70-130)		
MS2_201001290110	Zinc Total ICAP/MS	120	100	218	ug/L	95	(70-130)		
MSD_201001280260	Zinc Total ICAP/MS	ND	100	108	ug/L	108	(70-130)	20	0.93
MSD2_201001290110	Zinc Total ICAP/MS	120	100	220	ug/L	97	(70-130)	20	1.7
<b>QC Ref# 540297 - Chloride, Sulfate by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 02/01/2010</b>				
LCS1	Chloride		25	25.5	mg/L	102	(90-110)		
LCS2	Chloride		25	25.2	mg/L	101	(90-110)	20	1.2
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.428	mg/L	86	(50-150)		
MS_201001270092	Chloride	96	13	162	mg/L	107	(90-110)		
MSD_201001270092	Chloride	96	13	162	mg/L	106	(90-110)	10	0.94
LCS1	Sulfate		50	50.7	mg/L	101	(90-110)		
LCS2	Sulfate		50	50.2	mg/L	100	(90-110)	20	0.99
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.976	mg/L	98	(50-150)		
MRLLW	Sulfate		0.25	0.241	mg/L	96	(50-150)		
MS_201001270092	Sulfate	240	25	374	mg/L	105	(90-110)		
MSD_201001270092	Sulfate	240	25	373	mg/L	105	(90-110)	10	0.0
<b>QC Ref# 540317 - ICP Metals by EPA 200.7</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Boron Total ICAP		0.5	0.506	mg/L	101	(85-115)		
LCS2	Boron Total ICAP		0.5	0.505	mg/L	101	(85-115)	20	0.20
MBLK	Boron Total ICAP			<0.05	mg/L				
MRL_CHK	Boron Total ICAP		0.05	0.0675	mg/L	135	(50-150)		
MS_201002020616	Boron Total ICAP	0.20	0.5	0.701	mg/L	99	(70-130)		
MS2_201002020118	Boron Total ICAP	0.075	0.5	0.604	mg/L	106	(70-130)		
MSD_201002020616	Boron Total ICAP	0.20	0.5	0.707	mg/L	101	(70-130)	20	1.6
MSD2_201002020118	Boron Total ICAP	0.075	0.5	0.591	mg/L	103	(70-130)	20	2.9
LCS1	Calcium Total ICAP		50	50.9	mg/L	102	(85-115)		
LCS2	Calcium Total ICAP		50	50.6	mg/L	101	(85-115)	20	0.59
MBLK	Calcium Total ICAP			<1	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.02	mg/L	102	(50-150)		
MS_201002020616	Calcium Total ICAP	92.0	50	139	mg/L	94	(70-130)		
MS2_201002020118	Calcium Total ICAP	17	50	67.3	mg/L	100	(70-130)		
MSD_201002020616	Calcium Total ICAP	92.0	50	139	mg/L	94	(70-130)	20	0.0

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Laboratory  
QC Report: 324755

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201002020118	Calcium Total ICAP	17	50	66.5	mg/L	98	(70-130)	20	1.6
LCS1	Iron Total ICAP		5.0	5.11	mg/L	102	(85-115)		
LCS2	Iron Total ICAP		5.0	5.11	mg/L	102	(85-115)	20	0.0
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0222	mg/L	111	(50-150)		
MS_201002020616	Iron Total ICAP	ND	5.0	4.93	mg/L	99	(70-130)		
MS2_201002020118	Iron Total ICAP	0.026	5.0	5.08	mg/L	101	(70-130)		
MSD_201002020616	Iron Total ICAP	ND	5.0	5.03	mg/L	101	(70-130)	20	2.4
MSD2_201002020118	Iron Total ICAP	0.026	5.0	5.03	mg/L	100	(70-130)	20	1
LCS1	Iron Total ICAP 10 ppb		5.0	5.11	mg/L	102	(85-115)		
LCS2	Iron Total ICAP 10 ppb		5.0	5.11	mg/L	102	(85-115)	20	0.0
MBLK	Iron Total ICAP 10 ppb			<0.01	mg/L				
MRL_CHK	Iron Total ICAP 10 ppb		0.01	0.0115	mg/L	115	(50-150)		
MS_201002020616	Iron Total ICAP 10 ppb	ND	5.0	4.93	mg/L	99	(70-130)		
MS2_201002020118	Iron Total ICAP 10 ppb	0.026	5.0	5.08	mg/L	101	(70-130)		
MSD_201002020616	Iron Total ICAP 10 ppb	ND	5.0	5.03	mg/L	101	(70-130)	20	2.4
MSD2_201002020118	Iron Total ICAP 10 ppb	0.026	5.0	5.03	mg/L	100	(70-130)	20	1
LCS1	Magnesium Total ICAP		20	20.2	mg/L	101	(85-115)		
LCS2	Magnesium Total ICAP		20	20.0	mg/L	100	(85-115)	20	1
MBLK	Magnesium Total ICAP			<0.1	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201002020616	Magnesium Total ICAP	25.5	20	44.6	mg/L	96	(70-130)		
MS2_201002020118	Magnesium Total ICAP	14	20	33.9	mg/L	98	(70-130)		
MSD_201002020616	Magnesium Total ICAP	25.5	20	44.7	mg/L	96	(70-130)	20	0.52
MSD2_201002020118	Magnesium Total ICAP	14	20	33.6	mg/L	96	(70-130)	20	1.6
LCS1	Potassium Total ICAP		20	19.5	mg/L	98	(85-115)		
LCS2	Potassium Total ICAP		20	19.6	mg/L	98	(85-115)	20	0.51
MBLK	Potassium Total ICAP			<1	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201002020616	Potassium Total ICAP	4.11	20	23.4	mg/L	97	(70-130)		
MS2_201002020118	Potassium Total ICAP	2.1	20	21.3	mg/L	96	(70-130)		
MSD_201002020616	Potassium Total ICAP	4.11	20	23.5	mg/L	97	(70-130)	20	0.52
MSD2_201002020118	Potassium Total ICAP	2.1	20	21.3	mg/L	96	(70-130)	20	0.21
LCS1	Sodium Total ICAP		50	49.3	mg/L	99	(85-115)		
LCS2	Sodium Total ICAP		50	48.7	mg/L	97	(85-115)	20	1.2
MBLK	Sodium Total ICAP			<1	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		
MS_201002020616	Sodium Total ICAP	51.3	50	98.2	mg/L	94	(70-130)		

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Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201002020118	Sodium Total ICAP	40	50	87.5	mg/L	95	(70-130)		
MSD_201002020616	Sodium Total ICAP	51.3	50	98.5	mg/L	94	(70-130)	20	0.64
MSD2_201002020118	Sodium Total ICAP	40	50	86.7	mg/L	93	(70-130)	20	1.8
<b>QC Ref# 540318 - Fluoride by SM 4500F-C</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Fluoride		1.0	0.987	mg/L	99	(81-116)		
LCS2	Fluoride		1.0	0.999	mg/L	100	(81-116)	20	1.2
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0490	mg/L	98	(50-150)		
MS_201001270128	Fluoride	0.19	1.0	1.15	mg/L	96	(73-124)		
MS_201001290064	Fluoride	ND	1.0	0.971	mg/L	97	(73-124)		
MSD_201001270128	Fluoride	0.19	1.0	1.16	mg/L	97	(73-124)	20	0.93
<b>QC Ref# 540353 - Volatile Organics by EPA 624 by EPA 624</b>					<b>Analysis Date: 02/01/2010</b>				
LCS1	1,1,1-Trichloroethane		20	20.5	ug/L	103	(79-121)		
LCS2	1,1,1-Trichloroethane		20	20.6	ug/L	103	(79-121)	20	0.97
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MS_201001290110	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	17.6	ug/L	88	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	17.5	ug/L	87	(77-126)	20	0.57
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MS_201001290110	1,1,2,2-Tetrachloroethane	ND	10	9.5	ug/L	95	(79-130)		
LCS1	1,1,2-Trichloroethane		20	18.9	ug/L	94	(79-116)		
LCS2	1,1,2-Trichloroethane		20	19.1	ug/L	96	(79-116)	20	1.6
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MS_201001290110	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(76-129)		
LCS1	1,1-Dichloroethane		20	19.9	ug/L	100	(77-129)		
LCS2	1,1-Dichloroethane		20	19.8	ug/L	99	(77-129)	20	0.50
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MS_201001290110	1,1-Dichloroethane	ND	10	10.9	ug/L	109	(70-146)		
LCS1	1,1-Dichloroethylene		20	21.1	ug/L	106	(77-139)		
LCS2	1,1-Dichloroethylene		20	20.8	ug/L	104	(77-139)	20	1.4
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MS_201001290110	1,1-Dichloroethylene	ND	10	12.3	ug/L	123	(75-134)		
LCS1	1,2-Dichloroethane		20	19.4	ug/L	97	(81-122)		
LCS2	1,2-Dichloroethane		20	19.2	ug/L	96	(81-122)	20	1.0
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MS_201001290110	1,2-Dichloroethane	ND	10	10.5	ug/L	105	(75-135)		

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Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2-Dichloroethane-d4 (S)			96.8	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MS_201001290110	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
LCS1	1,2-Dichloropropane		20	19.8	ug/L	99	(77-118)		
LCS2	1,2-Dichloropropane		20	19.9	ug/L	99	(77-118)	20	0.50
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MS_201001290110	1,2-Dichloropropane	ND	10	10.9	ug/L	109	(73-132)		
LCS1	2-Butanone (MEK)		200	200	ug/L	100	(65-122)		
LCS2	2-Butanone (MEK)		200	206	ug/L	103	(65-122)	20	3.0
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MS_201001290110	2-Butanone (MEK)	ND	100	107	ug/L	107	(59-129)		
LCS1	2-Hexanone		200	243	ug/L	121	(72-128)		
LCS2	2-Hexanone		200	249	ug/L	125	(72-128)	20	2.4
MBLK	2-Hexanone			<2.5	ug/L				
MS_201001290110	2-Hexanone	ND	100	131	ug/L	131	(71-134)		
LCS1	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201001290110	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	222	ug/L	111	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	226	ug/L	113	(76-130)	20	1.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MS_201001290110	4-Methyl-2-Pentanone (MIBK)	ND	100	122	ug/L	122	(75-136)		
LCS1	Acetone		200	202	ug/L	101	(47-117)		
LCS2	Acetone		200	200	ug/L	100	(47-117)	20	1
MBLK	Acetone			<5	ug/L				
MS_201001290110	Acetone	ND	100	105	ug/L	105	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	19.1	ug/L	95	(60-156)		
LCS2	Benzene		20	18.8	ug/L	94	(60-156)	20	1.6
MBLK	Benzene			<0.25	ug/L				
MS_201001290110	Benzene	ND	10	10.8	ug/L	108	(76-133)		
LCS1	Bromodichloromethane		20	19.5	ug/L	98	(77-113)		
LCS2	Bromodichloromethane		20	19.1	ug/L	96	(77-113)	20	1.6
MBLK	Bromodichloromethane			<0.25	ug/L				
MS_201001290110	Bromodichloromethane	3.8	10	14.5	ug/L	106	(77-130)		

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Laboratory  
 QC Report: 324755

Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromoform		20	19.4	ug/L	97	(54-134)		
LCS2	Bromoform		20	19.6	ug/L	98	(54-134)	20	1.0
MBLK	Bromoform			<0.25	ug/L				
MS_201001290110	Bromoform	ND	10	10.8	ug/L	105	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	21.0	ug/L	105	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	21.4	ug/L	107	(67-144)	20	1.9
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MS_201001290110	Bromomethane (Methyl Bromide)	ND	10	11.0	ug/L	110	(55-147)		
LCS1	Carbon disulfide		20	20.7	ug/L	103	(63-131)		
LCS2	Carbon disulfide		20	20.2	ug/L	101	(63-131)	20	2.4
MBLK	Carbon disulfide			<0.25	ug/L				
MS_201001290110	Carbon disulfide	ND	10	12.0	ug/L	120	(65-155)		
LCS1	Carbon Tetrachloride		20	20.5	ug/L	103	(73-127)		
LCS2	Carbon Tetrachloride		20	20.3	ug/L	102	(73-127)	20	0.98
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MS_201001290110	Carbon Tetrachloride	ND	10	12.1	ug/L	121	(71-151)		
LCS1	Chlorobenzene		20	20.4	ug/L	102	(57-166)		
LCS2	Chlorobenzene		20	20.3	ug/L	101	(57-166)	20	0.49
MBLK	Chlorobenzene			<0.25	ug/L				
MS_201001290110	Chlorobenzene	ND	10	11.3	ug/L	113	(77-132)		
LCS1	Chlorodibromomethane		20	19.6	ug/L	98	(77-113)		
LCS2	Chlorodibromomethane		20	19.9	ug/L	100	(77-113)	20	1.0
MBLK	Chlorodibromomethane			<0.25	ug/L				
MS_201001290110	Chlorodibromomethane	2.0	10	12.3	ug/L	103	(68-136)		
LCS1	Chloroethane		20	19.9	ug/L	100	(70-133)		
LCS2	Chloroethane		20	20.4	ug/L	102	(70-133)	20	2.0
MBLK	Chloroethane			<0.25	ug/L				
MS_201001290110	Chloroethane	ND	10	10.8	ug/L	108	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	19.1	ug/L	95	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	19.0	ug/L	95	(78-117)	20	0.53
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MS_201001290110	Chloroform (Trichloromethane)	3.5	10	14.1	ug/L	106	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	23.4	ug/L	117	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	23.3	ug/L	117	(78-134)	20	0.43
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MS_201001290110	Chloromethane(Methyl Chloride)	ND	10	11.4	ug/L	114	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	20.0	ug/L	100	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	19.8	ug/L	99	(80-114)	20	1.0

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**Laboratory**  
**QC Report: 324755**

Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MS_201001290110	cis-1,2-Dichloroethylene	ND	10	11.1	ug/L	111	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	21.6	ug/L	108	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	21.8	ug/L	109	(68-123)	20	0.92
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MS_201001290110	cis-1,3-Dichloropropene	ND	10	11.3	ug/L	113	(65-120)		
LCS1	Dichlorodifluoromethane		20	19.5	ug/L	97	(46-165)		
LCS2	Dichlorodifluoromethane		20	18.4	ug/L	92	(46-165)	20	5.8
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MS_201001290110	Dichlorodifluoromethane	ND	10	7.94	ug/L	79	(30-169)		
LCS1	Dichloromethane		20	19.4	ug/L	97	(77-121)		
LCS2	Dichloromethane		20	19.1	ug/L	96	(77-121)	20	1.6
MBLK	Dichloromethane			<0.25	ug/L				
MS_201001290110	Dichloromethane	ND	10	11.4	ug/L	114	(75-132)		
LCS1	Ethyl benzene		20	21.5	ug/L	108	(79-122)		
LCS2	Ethyl benzene		20	21.3	ug/L	107	(79-122)	20	0.94
MBLK	Ethyl benzene			<0.25	ug/L				
MS_201001290110	Ethyl benzene	ND	10	12.2	ug/L	122	(68-146)		
LCS1	m,p-Xylenes		40	42.5	ug/L	106	(82-123)		
LCS2	m,p-Xylenes		40	42.7	ug/L	107	(82-123)	20	0.47
MBLK	m,p-Xylenes			<0.25	ug/L				
MS_201001290110	m,p-Xylenes	ND	20	24.3	ug/L	121	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	19.0	ug/L	95	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	18.7	ug/L	93	(76-124)	20	1.6
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MS_201001290110	m-Dichlorobenzene (1,3-DCB)	ND	10	10.8	ug/L	108	(76-139)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	18.8	ug/L	94	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	19.1	ug/L	96	(79-118)	20	1.6
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MS_201001290110	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(80-125)		
LCS1	o-Xylene		20	21.1	ug/L	106	(79-120)		
LCS2	o-Xylene		20	21.1	ug/L	106	(79-120)	20	0.47
MBLK	o-Xylene			<0.25	ug/L				
MS_201001290110	o-Xylene	ND	10	11.7	ug/L	117	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	18.9	ug/L	95	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	18.8	ug/L	94	(74-130)	20	0.53
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MS_201001290110	p-Dichlorobenzene (1,4-DCB)	ND	10	10.8	ug/L	108	(71-145)		

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Laboratory  
 QC Report: 324755

Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Styrene		20	22.0	ug/L	110	(77-125)		
LCS2	Styrene		20	21.9	ug/L	110	(77-125)	20	0.46
MBLK	Styrene			<0.25	ug/L				
MS_201001290110	Styrene	ND	10	12.2	ug/L	122	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	19.3	ug/L	97	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	18.6	ug/L	93	(79-122)	20	3.2
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MS_201001290110	Tetrachloroethylene (PCE)	ND	10	11.1	ug/L	111	(72-146)		
LCS1	Tetrahydrofuran		200	200	ug/L	100	(67-130)		
LCS2	Tetrahydrofuran		200	207	ug/L	104	(67-130)	20	3.4
MBLK	Tetrahydrofuran			<0.25	ug/L				
MS_201001290110	Tetrahydrofuran	ND	100	108	ug/L	108	(68-134)		
LCS1	Toluene		20	19.4	ug/L	97	(80-118)		
LCS2	Toluene		20	19.3	ug/L	96	(80-118)	20	1.0
MBLK	Toluene			<0.25	ug/L				
MS_201001290110	Toluene	ND	10	11.0	ug/L	110	(66-143)		
LCS1	Toluene-d8 (S)			99.4	%	99	(70-130)		
LCS2	Toluene-d8 (S)			99.0	%	99	(70-130)		
MBLK	Toluene-d8 (S)			96.2	%	96	(70-130)		
MS_201001290110	Toluene-d8 (S)			98.4	%	98	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	19.2	ug/L	96	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	18.6	ug/L	93	(82-122)	20	3.2
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MS_201001290110	trans-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	21.9	ug/L	110	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	21.6	ug/L	108	(64-126)	20	1.4
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MS_201001290110	trans-1,3-Dichloropropene	ND	10	11.5	ug/L	115	(61-127)		
LCS1	Trichloroethylene (TCE)		20	19.9	ug/L	99	(78-119)		
LCS2	Trichloroethylene (TCE)		20	19.6	ug/L	98	(78-119)	20	1.5
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MS_201001290110	Trichloroethylene (TCE)	ND	10	11.0	ug/L	110	(71-139)		
LCS1	Trichlorofluoromethane		20	24.9	ug/L	125	(70-145)		
LCS2	Trichlorofluoromethane		20	23.9	ug/L	120	(70-145)	20	4.1
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MS_201001290110	Trichlorofluoromethane	ND	10	13.1	ug/L	131	(63-161)		
LCS1	Vinyl Acetate		100	112	ug/L	112	(72-136)		
LCS2	Vinyl Acetate		100	112	ug/L	112	(72-136)	20	0.0

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Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Vinyl Acetate			<0.25	ug/L				
MS_201001290110	Vinyl Acetate	ND	50	57.3	ug/L	115	(55-146)		
LCS1	Vinyl chloride (VC)		20	20.6	ug/L	103	(66-140)		
LCS2	Vinyl chloride (VC)		20	20.4	ug/L	102	(66-140)	20	0.98
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MS_201001290110	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(56-159)		
<b>QC Ref# 540386 - ICPMS Metals by EPA 200.8</b>					<b>Analysis Date: 02/02/2010</b>				
LCS1	Beryllium Total ICAP/MS		5.0	4.87	ug/L	97	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.9	ug/L	98	(85-115)	20	0.61
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201001290118	Beryllium Total ICAP/MS	ND	5.0	5.55	ug/L	111	(70-130)		
MSD_201001290118	Beryllium Total ICAP/MS	ND	5.0	5.39	ug/L	107	(70-130)	20	3.7
<b>QC Ref# 540454 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 01/29/2010</b>				
DUP_201001270080	Total Dissolved Solid (TDS)	670		658	mg/L		(0-10)	10	1.8
DUP_201001270090	Total Dissolved Solid (TDS)	670		668	mg/L		(0-10)	10	0.60
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	712	mg/L	102	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
<b>QC Ref# 540634 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Perchlorate		25	27.6	ug/L	110	(85-115)		
LCS2	Perchlorate		25	27.8	ug/L	111	(85-115)	15	0.72
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.41	ug/L	110	(75-125)		
MRLW	Perchlorate		2.0	1.72	ug/L	86	(50-150)		
MS_201001270169	Perchlorate	ND	25	27.4	ug/L	110	(80-120)		
MSD_201001270169	Perchlorate	ND	25	26.1	ug/L	105	(80-120)	15	4.7
<b>QC Ref# 540848 - Alkalinity in CaCO3 units by SM 2320B</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Alkalinity in CaCO3 units		100	99.3	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	110	mg/L	110	(90-110)	20	10
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.91	mg/L	96	(50-150)		
MS_201002030040	Alkalinity in CaCO3 units	200	100	277	mg/L	<u>72</u>	(80-120)		
MS_201002030043	Alkalinity in CaCO3 units	220	100	306	mg/L	87	(80-120)		

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Tronox LLC  
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201002030040	Alkalinity in CaCO3 units	200	100	271	mg/L	<u>66</u>	(80-120)	20	8.6
MSD_201002030043	Alkalinity in CaCO3 units	220	100	306	mg/L	88	(80-120)	20	0.46
<b>QC Ref# 541105 - Mercury by EPA 245.1</b>		<b>Analysis Date: 02/05/2010</b>							
LCS1	Mercury		1.5	1.53	ug/L	102	(85-115)		
LCS2	Mercury		1.5	1.51	ug/L	101	(85-115)	20	1.3
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.212	ug/L	106	(50-150)		
MS_201002030413	Mercury	ND	1.5	1.52	ug/L	100	(70-130)		
MS2_201002030423	Mercury	ND	1.5	1.61	ug/L	107	(70-130)		
MSD_201002030413	Mercury	ND	1.5	1.52	ug/L	101	(70-130)	20	1
MSD2_201002030423	Mercury	ND	1.5	1.6	ug/L	106	(70-130)	20	0.94
<b>QC Ref# 541159 - Cyanide by manual distillation by EPA 335.4</b>		<b>Analysis Date: 02/05/2010</b>							
MBLK	Cyanide by manual distillation			<0.005	mg/L				
MRL_CHK	Cyanide by manual distillation		0.005	0.00680	mg/L	136	(50-150)		
MS_201001300126	Cyanide by manual distillation	ND	0.1	0.101	mg/L	100	(90-110)		
MS_201002010110	Cyanide by manual distillation	ND	0.1	0.102	mg/L	98	(90-110)		
MSD_201001300126	Cyanide by manual distillation	ND	0.1	0.0989	mg/L	98	(90-110)	20	2.2
RLHIGH	Cyanide by manual distillation		0.1	0.0993	mg/L	99	(90-110)		
RLLOW	Cyanide by manual distillation		0.02	0.0208	mg/L	104	(90-110)		
<b>QC Ref# 541500 - Weak Acid Dissociable Cyanide by SM4500CN-I</b>		<b>Analysis Date: 02/05/2010</b>							
LCS1	Weak Acid Dissociable Cyanide		0.1	0.106	mg/L	106	(90-110)		
LCS2	Weak Acid Dissociable Cyanide		0.1	0.102	mg/L	102	(90-110)	20	3.9
MBLK	Weak Acid Dissociable Cyanide			<0.005	mg/L				
MRL_CHK	Weak Acid Dissociable Cyanide		0.005	0.00680	mg/L	136	(50-150)		

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 (S) Indicates surrogate compound.  
 (I) Indicates internal standard compound.  
 RPD not calculated for LCS2 when different a concentration than LCS1 is used  
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



**MWH**

**LABORATORIES**

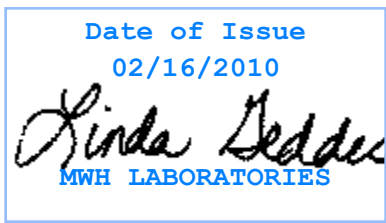
*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory Report**

for

Tronox LLC  
PO Box 55  
Henderson, NV 89009  
Attention: Susan Crowley  
Fax: 702-651-2310



LXG: Linda Geddes  
Project Manager



Report#: 324974  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 324974  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 02, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002020201	PC-54	01-Feb-2010 0740
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020204	M-44	01-Feb-2010 0758
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020206	PC-71	01-Feb-2010 0812
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020208	PC-72	01-Feb-2010 0823
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020210	PC-37	01-Feb-2010 0853
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020214	M-23	01-Feb-2010 0915
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020215	M-95	01-Feb-2010 0942
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)
201002020216	MD-1	01-Feb-2010 0000
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)
201002020217	PC-73	01-Feb-2010 0839
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 324974  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 02, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002020218	MD-3	01-Feb-2010 0000
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020219	FB-1	01-Feb-2010 0621
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Perchlorate
	Total Dissolved Solid (TDS)	
201002020220	PC-123	01-Feb-2010 0453
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020221	PC-128	01-Feb-2010 0513
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020222	PC-129	01-Feb-2010 0526
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020223	PC-130	01-Feb-2010 0542
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020224	PC-131	01-Feb-2010 0558
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020225	PC-132	01-Feb-2010 0612
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002020226	PC-124	01-Feb-2010 0625
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 324974  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 02, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002020227	PC-125	01-Feb-2010 0635
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020228	PC-126	01-Feb-2010 0645
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020229	PC-127	01-Feb-2010 0658
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002020230	M-96	01-Feb-2010 0726
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)

**Test Description**





750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629

(626) 386-1100 (800) 566-5227

MVLABS USE ONLY:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB: SC

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME	PROJECT JOB # / P.O.#
TRONOX	CWA-RCRA
Sampler Signatures: Thomas McDaniel 	
Susan Crowley (702) 651-2234 Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009	

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	MATRIX *		TDS	PH	CR	CRVI	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	SAMPLER COMMENTS
					GRAB	COMP						
453	2-1-10		PC-123	RGW	X		X	X	X			4 BOTTLES
513	2-1-10		PC-128	RGW	X		X	X	X			4 BOTTLES
526	2-1-10		PC-129	RGW	X		X	X	X			4 BOTTLES
542	2-1-10		PC-130	RGW	X		X	X	X			4 BOTTLES
555	2-1-10		PC-131	RGW	X		X	X	X			4 BOTTLES
612	2-1-10		PC-132	RGW	X		X	X	X			4 BOTTLES
625	2-1-10		PC-124	RGW	X		X	X	X			4 BOTTLES
635	2-1-10		PC-125	RGW	X		X	X	X			4 BOTTLES
645	2-1-10		PC-126	RGW	X		X	X	X			4 BOTTLES
658	2-1-10		PC-127	RGW	X		X	X	X			4 BOTTLES
726	2-1-10		M-96	RGW	X		X	X	X			4 BOTTLES

\* MATRIX TYPES:

Reported by Volume:



CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

CWW = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

Reported by Weight:

SO = Soil  
SL = Sludge

RELINQUISHED BY: 	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: 		Thomas McDaniel	Veolia Water NA for Tronox LLC - Henderson Plant	2-1-10	12:00 PM
RELINQUISHED BY:				2-2-10	11:27
RECEIVED BY:					

Group#
Date Sampled
Date Received

Linda Geddes Your MWHL Project Manager

Client Code TRONOX  
 Project Code CWA-RCRA Bottle Orders  
 Group Name CR6010 Quarterly  
 PO# / Job# \_\_\_\_\_

BO #: 11184

**Sampler: please return  
 this paper with your samples**

Created By: LXG

Order Date: 11/12/2009

Bottle Orders

Ship By: 11/27/2009
------------------------

**Ship Sample Kits to**  
 Veolia Water-Tronox LLC  
 Gate 1  
 560 West Lake Mead Pkwy  
 Henderson, NV 89015

**Send Report to**  
 Tronox LLC  
 PO Box 55  
 Henderson, NV 89009

**Billing Address**  
 Tronox LLC  
 PO Box 55  
 Henderson, NV 89009

Attn: Wendy Prescott  
 Phone:  
 Fax:

Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
100	Cadmium Total ICAP RCRA	1	250ml acid rinsed 1ml HNO3 (18%)	
15	CRVI 7196	1	125ml poly acid rinsed no preservative	
100	Perchlorate	1	125ml poly CLO4 - no preservative	
100	PH by EPA 9040	1	125ml poly no preservative	
100	Total Dissolved Solid (TDS)	1	500ml poly TDS - no preservative	

Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN. - 24HR ht

From: Origin ID: LASA (702) 651-2230  
Tronox  
Tronox  
8000 W. Lake Mead Parkway  
  
Henderson, NV 89015



J10100912170224

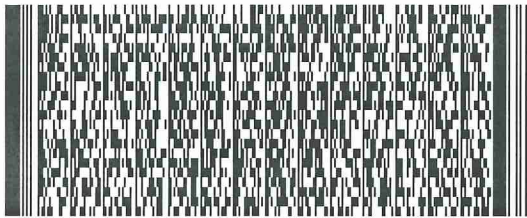
Ship Date: 01FEB10  
ActWgt: 59.0 LB  
CAD: 100845654/INET3010

Delivery Address Bar Code



Ref # MSO #144105  
Invoice #  
PO #  
Dept #

SHIP TO: (626) 568-6400 BILL SENDER  
**Attn: Sample Receiving**  
**Montgomery Watson Labs**  
**750 ROYAL OAKS DR STE 100**  
  
**MONROVIA, CA 91016**

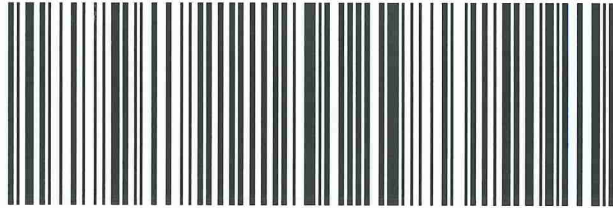


TRK# 7932 3186 3567  
0201

TUE - 02 FEB A1  
PRIORITY OVERNIGHT

91016  
CA-US  
BUR

**QZ WHPA**



505G2K733/FFFF

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From: Origin ID: LASA (702) 651-2230  
Tronox  
Tronox  
8000 W. Lake Mead Parkway  
  
Henderson, NV 89015



J10100912170224

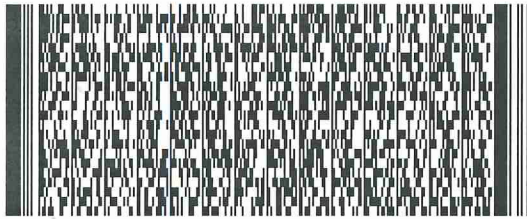
Ship Date: 01FEB10  
ActWgt: 58.0 LB  
CAD: 100845654/INET3010

Delivery Address Bar Code



Ref # MSO #144105  
Invoice #  
PO #  
Dept #

SHIP TO: (626) 568-6400 BILL SENDER  
**Attn: Sample Receiving**  
**Montgomery Watson Labs**  
**750 ROYAL OAKS DR STE 100**  
  
**MONROVIA, CA 91016**

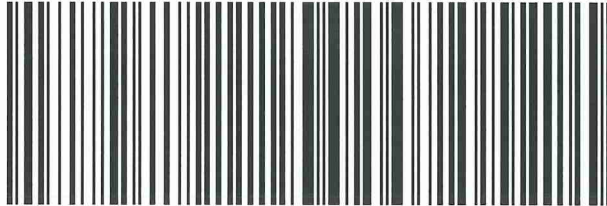


TRK# 7983 5296 0552  
0201

TUE - 02 FEB A1  
PRIORITY OVERNIGHT

91016  
CA-US  
BUR

**QZ WHPA**



605G2/C733/5FEB

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February 16, 2010

Ms. Susan Crowley  
Tronox  
PO Box 55  
Henderson, NV 89009

Subject: Case Narrative report 324974

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 02, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

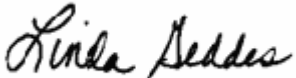
Case Narrative:  
For the MWH Laboratories data the following issues were observed:

(Hexavalent Chromium) Samples were received and analyzed after the 24 hour holding time had been exceeded. Data is flagged H3.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Linda Geddes  
Project Manager



**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

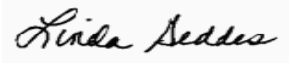
**Laboratory Comments  
Report: #324974**

Tronox LLC  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

---

**Client specific Comments**

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:  \_\_\_\_\_

**Group Comments**

(Hexavalent Chromium) Samples were received and analyzed after the 24 hour holding time had been exceeded. Data is flagged H3.

**Flags Legend:**

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



# MWH

## LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 324974

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/02/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002020201      <u>PC-54</u></b>						
02/09/2010	03:23	Chromium Total ICAP	1.6		mg/L	0.01
02/03/2010	17:50	Perchlorate	240000	6	ug/L	20000
02/02/2010	18:39	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:07	Total Dissolved Solids (TDS)	5800	500	mg/L	10
<b>201002020204      <u>M-44</u></b>						
02/09/2010	03:27	Chromium Total ICAP	0.74		mg/L	0.01
02/03/2010	18:12	Perchlorate	720000	6	ug/L	40000
02/02/2010	18:42	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:08	Total Dissolved Solids (TDS)	8400	500	mg/L	10
<b>201002020206      <u>PC-71</u></b>						
02/09/2010	03:31	Chromium Total ICAP	0.43		mg/L	0.01
02/03/2010	18:35	Perchlorate	490000	6	ug/L	40000
02/02/2010	18:46	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:09	Total Dissolved Solids (TDS)	7800	500	mg/L	10
<b>201002020208      <u>PC-72</u></b>						
02/09/2010	03:45	Chromium Total ICAP	0.22		mg/L	0.01
02/04/2010	13:18	Perchlorate	280000	6	ug/L	20000
02/02/2010	19:00	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:10	Total Dissolved Solids (TDS)	7000	500	mg/L	10
<b>201002020210      <u>PC-37</u></b>						
02/09/2010	03:50	Chromium Total ICAP	0.21		mg/L	0.01
02/04/2010	13:41	Perchlorate	370000	6	ug/L	20000
02/02/2010	19:04	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:11	Total Dissolved Solids (TDS)	7200	500	mg/L	10
<b>201002020214      <u>M-23</u></b>						
02/09/2010	03:01	Chromium Total ICAP	0.62		mg/L	0.01
02/04/2010	14:03	Perchlorate	420000	6	ug/L	40000
02/02/2010	19:08	PH (H3=past HT not compliant)	7.8		Units	0.1
02/03/2010	16:12	Total Dissolved Solids (TDS)	4000	500	mg/L	10
<b>201002020215      <u>M-95</u></b>						
02/09/2010	03:54	Chromium Total ICAP	0.90		mg/L	0.01
02/02/2010	16:30	Hexavalent chromium (Cr VI)	0.92		mg/L	0.01
02/04/2010	14:26	Perchlorate	490000	6	ug/L	40000

### SUMMARY OF POSITIVE DATA ONLY



# MWH

## LABORATORIES

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750 Royal Oak Dr., Suite 100  
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Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 324974

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/02/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/02/2010	19:11	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:13	Total Dissolved Solids (TDS)	6800	500	mg/L	10
<b>201002020216 MD-1</b>						
02/09/2010	03:59	Chromium Total ICAP	0.92		mg/L	0.01
02/02/2010	16:35	Hexavalent chromium (Cr VI)	0.91		mg/L	0.01
02/04/2010	14:48	Perchlorate	470000	6	ug/L	40000
02/02/2010	19:15	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:14	Total Dissolved Solids (TDS)	6800	500	mg/L	10
<b>201002020217 PC-73</b>						
02/09/2010	04:04	Chromium Total ICAP	0.38		mg/L	0.01
02/05/2010	07:13	Perchlorate	380000	6	ug/L	20000
02/02/2010	19:19	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:15	Total Dissolved Solids (TDS)	7200	500	mg/L	10
<b>201002020218 MD-3</b>						
02/09/2010	04:08	Chromium Total ICAP	0.85		mg/L	0.01
02/04/2010	15:33	Perchlorate	720000	6	ug/L	40000
02/02/2010	19:22	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:17	Total Dissolved Solids (TDS)	8500	500	mg/L	10
<b>201002020219 FB-1</b>						
02/02/2010	19:30	PH (H3=past HT not compliant)	5.9		Units	0.1
<b>201002020220 PC-123</b>						
02/09/2010	04:13	Chromium Total ICAP	1.6		mg/L	0.01
02/04/2010	16:40	Perchlorate	460000	6	ug/L	40000
02/02/2010	17:42	PH (H3=past HT not compliant)	7.5		Units	0.1
02/03/2010	16:19	Total Dissolved Solids (TDS)	6900	500	mg/L	10
<b>201002020221 PC-128</b>						
02/09/2010	04:18	Chromium Total ICAP	0.19		mg/L	0.01
02/04/2010	17:02	Perchlorate	490000	6	ug/L	40000
02/02/2010	17:51	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:20	Total Dissolved Solids (TDS)	5700	500	mg/L	10
<b>201002020222 PC-129</b>						
02/09/2010	04:22	Chromium Total ICAP	0.76		mg/L	0.01
02/04/2010	17:25	Perchlorate	460000	6	ug/L	40000



# MWH

## LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 324974

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/02/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/02/2010	17:55	PH (H3=past HT not compliant)	7.5		Units	0.1
02/03/2010	16:21	Total Dissolved Solids (TDS)	6800	500	mg/L	10
		<b>201002020223</b>	<b>PC-130</b>			
02/09/2010	04:26	Chromium Total ICAP	0.85		mg/L	0.01
02/04/2010	17:47	Perchlorate	530000	6	ug/L	40000
02/02/2010	17:59	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:22	Total Dissolved Solids (TDS)	7400	500	mg/L	10
		<b>201002020224</b>	<b>PC-131</b>			
02/04/2010	18:10	Perchlorate	7100	6	ug/L	800
02/02/2010	18:13	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:23	Total Dissolved Solids (TDS)	9700	500	mg/L	10
		<b>201002020225</b>	<b>PC-132</b>			
02/04/2010	18:32	Perchlorate	2300	6	ug/L	400
02/02/2010	18:17	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	16:24	Total Dissolved Solids (TDS)	9000	500	mg/L	10
		<b>201002020226</b>	<b>PC-124</b>			
02/09/2010	04:53	Chromium Total ICAP	0.063		mg/L	0.01
02/04/2010	18:54	Perchlorate	6800	6	ug/L	400
02/02/2010	18:20	PH (H3=past HT not compliant)	7.6		Units	0.1
02/03/2010	16:25	Total Dissolved Solids (TDS)	7100	500	mg/L	10
		<b>201002020227</b>	<b>PC-125</b>			
02/09/2010	04:57	Chromium Total ICAP	0.013		mg/L	0.01
02/04/2010	19:17	Perchlorate	1900	6	ug/L	400
02/02/2010	18:24	PH (H3=past HT not compliant)	7.7		Units	0.1
02/03/2010	19:33	Total Dissolved Solids (TDS)	3900	500	mg/L	10
		<b>201002020228</b>	<b>PC-126</b>			
02/09/2010	05:01	Chromium Total ICAP	0.14		mg/L	0.01
02/04/2010	19:39	Perchlorate	17000	6	ug/L	800
02/02/2010	18:28	PH (H3=past HT not compliant)	7.5		Units	0.1
02/03/2010	19:35	Total Dissolved Solids (TDS)	12000	500	mg/L	10
		<b>201002020229</b>	<b>PC-127</b>			
02/11/2010	02:09	Chromium Total ICAP	1.5		mg/L	0.01
02/04/2010	23:01	Perchlorate	400000	6	ug/L	40000



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Laboratory  
Hits Report: 324974

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/02/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/02/2010	18:31	PH (H3=past HT not compliant)	7.7		Units	0.1
02/08/2010	20:26	Total Dissolved Solids (TDS)	6600	500	mg/L	10
	<b>201002020230</b>	<b><u>M-96</u></b>				
02/11/2010	02:14	Chromium Total ICAP	0.64		mg/L	0.01
02/04/2010	23:23	Perchlorate	260000	6	ug/L	20000
02/02/2010	18:35	PH (H3=past HT not compliant)	7.6		Units	0.1
02/08/2010	20:27	Total Dissolved Solids (TDS)	5400	500	mg/L	10





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**Laboratory Data**  
**Report: 324974**

**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received on:  
 02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>PC-54 (201002020201)</u></b>								
<b>Sampled on 02/01/2010 0740</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:23	540655 (EPA 6010)	Chromium Total ICAP	1.6	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/03/2010	17:50	540634 (EPA 314.0)	Perchlorate	240000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:07	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:39	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-44 (201002020204)</u></b>								
<b>Sampled on 02/01/2010 0758</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:27	540655 (EPA 6010)	Chromium Total ICAP	0.74	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/03/2010	18:12	540634 (EPA 314.0)	Perchlorate	720000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:08	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:42	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>PC-71 (201002020206)</u></b>								
<b>Sampled on 02/01/2010 0812</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:31	540655 (EPA 6010)	Chromium Total ICAP	0.43	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/03/2010	18:35	540634 (EPA 314.0)	Perchlorate	490000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:09	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:46	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>PC-72 (201002020208)</u></b>								
<b>Sampled on 02/01/2010 0823</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:45	540655 (EPA 6010)	Chromium Total ICAP	0.22	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	13:18	540797 (EPA 314.0)	Perchlorate	280000	ug/L	20000	5000

Rounding on totals after summation.  
 (c) - indicates calculated results



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Laboratory Data  
Report: 324974

**Tronox LLC**  
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Samples Received on:  
02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:10	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:00	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>PC-37 (201002020210)</b>					<b>Sampled on 02/01/2010 0853</b>			
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:50	540655 (EPA 6010)	Chromium Total ICAP	0.21	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	13:41	540797 (EPA 314.0)	Perchlorate	370000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:11	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:04	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>M-23 (201002020214)</b>					<b>Sampled on 02/01/2010 0915</b>			
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:01	540655 (EPA 6010)	Chromium Total ICAP	0.62	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	14:03	540797 (EPA 314.0)	Perchlorate	420000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:12	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:08	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b>M-95 (201002020215)</b>					<b>Sampled on 02/01/2010 0942</b>			
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/02/2010	16:30	540437 (EPA 7196)	Hexavalent chromium (Cr VI)	0.92 (H3)	mg/L	0.01	2
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:54	540655 (EPA 6010)	Chromium Total ICAP	0.90	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	14:26	540797 (EPA 314.0)	Perchlorate	490000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:13	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:11	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1

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**Laboratory Data  
Report: 324974**

Samples Received on:  
02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>MD-1 (201002020216)</b>								<b>Sampled on 02/01/2010 0000</b>
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/02/2010	16:35	540437 (EPA 7196)	Hexavalent chromium (Cr VI)	0.91 (H3)	mg/L	0.01	2
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:59	540655 (EPA 6010)	Chromium Total ICAP	0.92	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	14:48	540797 (EPA 314.0)	Perchlorate	470000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:14	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:15	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>PC-73 (201002020217)</b>								<b>Sampled on 02/01/2010 0839</b>
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:04	540655 (EPA 6010)	Chromium Total ICAP	0.38	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/05/2010	07:13	540798 (EPA 314.0)	Perchlorate	380000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:15	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:19	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>MD-3 (201002020218)</b>								<b>Sampled on 02/01/2010 0000</b>
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:08	540655 (EPA 6010)	Chromium Total ICAP	0.85	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	15:33	540797 (EPA 314.0)	Perchlorate	720000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:17	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8500	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:22	540540 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>FB-1 (201002020219)</b>								<b>Sampled on 02/01/2010 0621</b>
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/02/2010	16:15	540437 (EPA 7196)	Hexavalent chromium (Cr VI)	ND (H3)	mg/L	0.005	1

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Laboratory Data  
Report: 324974

**Tronox LLC**  
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02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	03:12	540655 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	16:18	540797 (EPA 314.0)	Perchlorate	ND	ug/L	4	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:18	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	19:30	540540 (EPA 9040)	PH (H3=past HT not compliant)	5.9	Units	0.1	1
<b>PC-123 (201002020220)</b>						<b>Sampled on 02/01/2010 0453</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:13	540655 (EPA 6010)	Chromium Total ICAP	1.6	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	16:40	540797 (EPA 314.0)	Perchlorate	460000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:19	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	17:42	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b>PC-128 (201002020221)</b>						<b>Sampled on 02/01/2010 0513</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:18	540655 (EPA 6010)	Chromium Total ICAP	0.19	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	17:02	540797 (EPA 314.0)	Perchlorate	490000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:20	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	17:51	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>PC-129 (201002020222)</b>						<b>Sampled on 02/01/2010 0526</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:22	540655 (EPA 6010)	Chromium Total ICAP	0.76	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	17:25	540797 (EPA 314.0)	Perchlorate	460000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:21	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	10	1

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Samples Received on:  
 02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	17:55	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b>PC-130 (201002020223)</b>						<b>Sampled on 02/01/2010 0542</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:26	540655 (EPA 6010)	Chromium Total ICAP	0.85	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	17:47	540797 (EPA 314.0)	Perchlorate	530000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:22	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	17:59	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>PC-131 (201002020224)</b>						<b>Sampled on 02/01/2010 0558</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:44	540655 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	18:10	540797 (EPA 314.0)	Perchlorate	7100	ug/L	800	200
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:23	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	9700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:13	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>PC-132 (201002020225)</b>						<b>Sampled on 02/01/2010 0612</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:49	540655 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	18:32	540797 (EPA 314.0)	Perchlorate	2300	ug/L	400	100
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:24	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	9000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:17	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>PC-124 (201002020226)</b>						<b>Sampled on 02/01/2010 0625</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:53	540655 (EPA 6010)	Chromium Total ICAP	0.063	mg/L	0.01	1

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Laboratory Data  
Report: 324974

Tronox LLC  
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Samples Received on:  
02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	18:54	540797 (EPA 314.0)	Perchlorate	6800	ug/L	400	100
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/3/2010	02/03/2010	16:25	541286 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7100	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:20	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>PC-125 (201002020227)</b>						<b>Sampled on 02/01/2010 0635</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	04:57	540655 (EPA 6010)	Chromium Total ICAP	0.013	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	19:17	540797 (EPA 314.0)	Perchlorate	1900	ug/L	400	100
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
	02/03/2010	19:33	541005 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:24	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>PC-126 (201002020228)</b>						<b>Sampled on 02/01/2010 0645</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/09/2010	05:01	540655 (EPA 6010)	Chromium Total ICAP	0.14	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	19:39	540797 (EPA 314.0)	Perchlorate	17000	ug/L	800	200
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
	02/03/2010	19:35	541005 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	12000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:28	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b>PC-127 (201002020229)</b>						<b>Sampled on 02/01/2010 0658</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	02:09	541723 (EPA 6010)	Chromium Total ICAP	1.5	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	23:01	540798 (EPA 314.0)	Perchlorate	400000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/8/2010	02/08/2010	20:26	541693 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:31	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1

Rounding on totals after summation.  
(c) - indicates calculated results



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**Laboratory Data**  
**Report: 324974**

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>M-96 (201002020230)</u></b>						<b>Sampled on 02/01/2010 0726</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	02:14	541723 (EPA 6010)	Chromium Total ICAP	0.64	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/04/2010	23:23	540798 (EPA 314.0)	Perchlorate	260000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/8/2010	02/08/2010	20:27	541693 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/02/2010	18:35	540389 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1



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QC Ref # 540389 - PH (H3=past HT not compliant)

Table with 2 columns: Sample ID and Location. Rows include 201002020201 (PC-54), 201002020204 (M-44), 201002020206 (PC-71), 201002020220 (PC-123), 201002020221 (PC-128), 201002020222 (PC-129), 201002020223 (PC-130), 201002020224 (PC-131), 201002020225 (PC-132), 201002020226 (PC-124), 201002020227 (PC-125), 201002020228 (PC-126), 201002020229 (PC-127), 201002020230 (M-96)

Analysis Date: 02/02/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 540437 - Hexavalent Chromium by EPA 7196

Table with 2 columns: Sample ID and Location. Rows include 201002020215 (M-95), 201002020216 (MD-1), 201002020219 (FB-1)

Analysis Date: 02/02/2010

Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK

QC Ref # 540540 - PH (H3=past HT not compliant)

Table with 2 columns: Sample ID and Location. Rows include 201002020208 (PC-72), 201002020210 (PC-37), 201002020214 (M-23), 201002020215 (M-95), 201002020216 (MD-1), 201002020217 (PC-73), 201002020218 (MD-3), 201002020219 (FB-1)

Analysis Date: 02/02/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 540634 - Perchlorate

Table with 2 columns: Sample ID and Location. Rows include 201002020201 (PC-54), 201002020204 (M-44), 201002020206 (PC-71)

Analysis Date: 02/03/2010

Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ

QC Ref # 540655 - ICP Metals

Table with 2 columns: Sample ID and Location. Rows include 201002020201 (PC-54), 201002020204 (M-44), 201002020206 (PC-71), 201002020208 (PC-72), 201002020210 (PC-37), 201002020214 (M-23), 201002020215 (M-95), 201002020216 (MD-1), 201002020217 (PC-73), 201002020218 (MD-3), 201002020219 (FB-1), 201002020220 (PC-123)

Analysis Date: 02/09/2010

Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT
Analyzed by: VXT





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(continued)

201002020221	PC-128	Analyzed by: VXT
201002020222	PC-129	Analyzed by: VXT
201002020223	PC-130	Analyzed by: VXT
201002020224	PC-131	Analyzed by: VXT
201002020225	PC-132	Analyzed by: VXT
201002020226	PC-124	Analyzed by: VXT
201002020227	PC-125	Analyzed by: VXT
201002020228	PC-126	Analyzed by: VXT

**QC Ref # 540797 - Perchlorate**

201002020208	PC-72	Analyzed by: SZZ
201002020210	PC-37	Analyzed by: SZZ
201002020214	M-23	Analyzed by: SZZ
201002020215	M-95	Analyzed by: SZZ
201002020216	MD-1	Analyzed by: SZZ
201002020218	MD-3	Analyzed by: SZZ
201002020219	FB-1	Analyzed by: SZZ
201002020220	PC-123	Analyzed by: SZZ
201002020221	PC-128	Analyzed by: SZZ
201002020222	PC-129	Analyzed by: SZZ
201002020223	PC-130	Analyzed by: SZZ
201002020224	PC-131	Analyzed by: SZZ
201002020225	PC-132	Analyzed by: SZZ
201002020226	PC-124	Analyzed by: SZZ
201002020227	PC-125	Analyzed by: SZZ
201002020228	PC-126	Analyzed by: SZZ

**Analysis Date: 02/04/2010**

**QC Ref # 540798 - Perchlorate**

201002020217	PC-73	Analyzed by: SZZ
201002020229	PC-127	Analyzed by: SZZ
201002020230	M-96	Analyzed by: SZZ

**Analysis Date: 02/05/2010**

**QC Ref # 541005 - Total Dissolved Solids (TDS)**

201002020227	PC-125	Analyzed by: JRF
201002020228	PC-126	Analyzed by: JRF

**Analysis Date: 02/03/2010**

**QC Ref # 541286 - Total Dissolved Solids (TDS)**

201002020201	PC-54	Analyzed by: JRF
201002020204	M-44	Analyzed by: JRF
201002020206	PC-71	Analyzed by: JRF
201002020208	PC-72	Analyzed by: JRF
201002020210	PC-37	Analyzed by: JRF
201002020214	M-23	Analyzed by: JRF
201002020215	M-95	Analyzed by: JRF
201002020216	MD-1	Analyzed by: JRF
201002020217	PC-73	Analyzed by: JRF
201002020218	MD-3	Analyzed by: JRF
201002020219	FB-1	Analyzed by: JRF

**Analysis Date: 02/03/2010**



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**Laboratory**  
**QC Summary: 324974**

Tronox LLC

(continued)

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201002020220	PC-123	Analyzed by: JRF
201002020221	PC-128	Analyzed by: JRF
201002020222	PC-129	Analyzed by: JRF
201002020223	PC-130	Analyzed by: JRF
201002020224	PC-131	Analyzed by: JRF
201002020225	PC-132	Analyzed by: JRF
201002020226	PC-124	Analyzed by: JRF

**QC Ref # 541693 - Total Dissolved Solids (TDS)**

201002020229	PC-127
201002020230	M-96

**Analysis Date: 02/08/2010**

Analyzed by: JRF  
Analyzed by: JRF

**QC Ref # 541723 - ICP Metals**

201002020229	PC-127
201002020230	M-96

**Analysis Date: 02/11/2010**

Analyzed by: NINA  
Analyzed by: NINA



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Laboratory  
QC Report: 324974

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 540389 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/02/2010</b>				
DUP_201002020223	PH (H3=past HT not compliant)	7.6		7.57	Units		(0-20)	20	0.13
DUP2_201002020206	PH (H3=past HT not compliant)	7.7		7.67	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.05	Units	101	(98-102)	20	0.66
<b>QC Ref# 540437 - Hexavalent Chromium by EPA 7196 by EPA 7196</b>					<b>Analysis Date: 02/02/2010</b>				
LCS1	Hexavalent chromium (Cr VI)		0.05	0.0520	mg/L	104	(85-115)		
LCS2	Hexavalent chromium (Cr VI)		0.05	0.0530	mg/L	106	(85-115)		
MBLK	Hexavalent chromium (Cr VI)			<0.005	mg/L				
MRL_CHK	Hexavalent chromium (Cr VI)		0.005	0.00400	mg/L	80	(50-150)		
MS_201002020219	Hexavalent chromium (Cr VI)	ND	0.05	0.0510	mg/L	100	(70-130)		
MSD_201002020219	Hexavalent chromium (Cr VI)	ND	0.05	0.0520	mg/L	102	(70-130)	20	2.0
<b>QC Ref# 540540 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/02/2010</b>				
DUP_201002020218	PH (H3=past HT not compliant)	7.6		7.65	Units		(0-20)		
LCS1	PH (H3=past HT not compliant)		6.0	6.06	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.06	Units	101	(98-102)	20	0.0
<b>QC Ref# 540634 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Perchlorate		25	27.6	ug/L	110	(85-115)		
LCS2	Perchlorate		25	27.8	ug/L	111	(85-115)	15	0.72
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.41	ug/L	110	(75-125)		
MRLW	Perchlorate		2.0	1.72	ug/L	86	(50-150)		
MS_201001270169	Perchlorate	ND	25	27.4	ug/L	110	(80-120)		
MSD_201001270169	Perchlorate	ND	25	26.1	ug/L	105	(80-120)	15	4.7
<b>QC Ref# 540655 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/09/2010</b>				
LCS1	Chromium Total ICAP		1.0	0.975	mg/L	98	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.945	mg/L	95	(85-115)	20	3.1
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.00940	mg/L	94	(50-150)		
MS_201002020214	Chromium Total ICAP	0.62	1.0	1.57	mg/L	95	(70-130)		
MS2_201002020219	Chromium Total ICAP	ND	1.0	0.975	mg/L	98	(70-130)		
MSD_201002020214	Chromium Total ICAP	0.62	1.0	1.56	mg/L	94	(70-130)	20	1.1
MSD2_201002020219	Chromium Total ICAP	ND	1.0	0.973	mg/L	97	(70-130)	20	0.21
<b>QC Ref# 540797 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/04/2010</b>				
LCS1	Perchlorate		25	27.6	ug/L	110	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

28/30

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 324974

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perchlorate		25	27.1	ug/L	108	(85-115)	15	1.8
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.95	ug/L	124	(75-125)		
MRLCW	Perchlorate		2.0	2.37	ug/L	119	(50-150)		
MS_201002030411	Perchlorate	ND	25	29.4	ug/L	110	(80-120)		
MSD_201002030411	Perchlorate	ND	25	28.0	ug/L	105	(80-120)	15	4.7

### QC Ref# 540798 - Perchlorate by EPA 314.0

Analysis Date: 02/04/2010

LCS1	Perchlorate		25	27.5	ug/L	110	(85-115)		
LCS2	Perchlorate		25	27.2	ug/L	109	(85-115)	15	1.1
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.4	ug/L	85	(75-125)		
MRLCW	Perchlorate		2.0	2.12	ug/L	106	(50-150)		
MS_201002020530	Perchlorate		25	871	ug/L	<u>78</u>	(80-120)		
MSD_201002020530	Perchlorate		25	875	ug/L	<u>79</u>	(80-120)	15	1.8

### QC Ref# 541005 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 02/03/2010

DUP_201002020227	Total Dissolved Solid (TDS)	3900		3880	mg/L		(0-10)	10	0.41
DUP_201002020538	Total Dissolved Solid (TDS)	4700		4770	mg/L		(0-10)	10	0.93
LCS1	Total Dissolved Solid (TDS)		175	160	mg/L	91	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	700	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		

### QC Ref# 541286 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 02/03/2010

DUP_201002020118	Total Dissolved Solid (TDS)	280		290	mg/L		(0-10)	10	2.8
DUP_201002020217	Total Dissolved Solid (TDS)	7200		7010	mg/L		(0-10)	10	2.1
LCS1	Total Dissolved Solid (TDS)		175	172	mg/L	98	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	692	mg/L	99	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

### QC Ref# 541693 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 02/08/2010

DUP_201002020324	Total Dissolved Solid (TDS)	270		260	mg/L		(0-10)	10	3.0
DUP_201002020703	Total Dissolved Solid (TDS)	460		466	mg/L		(0-10)	10	0.43
LCS1	Total Dissolved Solid (TDS)		175	160	mg/L	91	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	648	mg/L	93	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	8.00	mg/L	80	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

29/30

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 324974

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 541723 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/11/2010</b>				
LCS1	Chromium Total ICAP		1.0	1.01	mg/L	101	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.00	mg/L	100	(85-115)	20	1
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0105	mg/L	105	(50-150)		
MS_201002020533	Chromium Total ICAP	0.39	1.0	1.33	mg/L	95	(70-130)		
MS2_201002020539	Chromium Total ICAP	ND	1.0	0.979	mg/L	98	(70-130)		
MSD_201002020533	Chromium Total ICAP	0.39	1.0	1.35	mg/L	97	(70-130)	20	2.3
MSD2_201002020539	Chromium Total ICAP	ND	1.0	0.981	mg/L	98	(70-130)	20	0.20

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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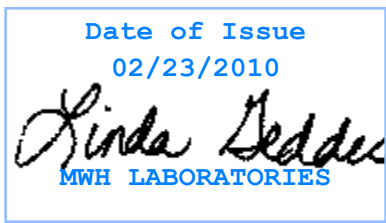
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**Laboratory Report**

for

Tronox LLC  
PO Box 55  
Henderson, NV 89009  
Attention: Susan Crowley  
Fax: 702-651-2310



LXG: Linda Geddes  
Project Manager



Report#: 325143  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325143  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 03, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002030295	I-D	02-Feb-2010 0535
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030338	I-C	02-Feb-2010 0518
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030339	I-S	02-Feb-2010 0515
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030340	I-L	02-Feb-2010 0510
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030341	I-R	02-Feb-2010 0507
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030342	I-B	02-Feb-2010 0504
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030343	I-AR	02-Feb-2010 0525
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030344	I-O	02-Feb-2010 0617
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030345	I-P	02-Feb-2010 0614
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325143  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 03, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002030346	I-H	02-Feb-2010 0611
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030347	I-T	02-Feb-2010 0608
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030348	I-Q	02-Feb-2010 0602
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030349	I-F	02-Feb-2010 0547
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030350	I-N	02-Feb-2010 0544
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030351	I-E	02-Feb-2010 0541
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030352	I-M	02-Feb-2010 0538
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030353	I-AA	02-Feb-2010 0605
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030354	M-131	02-Feb-2010 0923
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)



**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325143  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 03, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002030355	M-57A	02-Feb-2010 0934
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030356	M-64	02-Feb-2010 1010
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030357	M-65	02-Feb-2010 1025
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030358	M-66	02-Feb-2010 1040
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030359	M-79	02-Feb-2010 1051
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030360	M-69	02-Feb-2010 1105
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030361	M-135	02-Feb-2010 1115
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030362	M-99	02-Feb-2010 1125
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
201002030363	M-25	02-Feb-2010 1200
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325143  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 03, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002030364	M-37	02-Feb-2010 1230
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)
201002030365	EB-1	02-Feb-2010 1056
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)
201002030366	MD-4	02-Feb-2010 0000
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002030367	M-10	02-Feb-2010 1315
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)

**Test Description**



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

325143

MVLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **TRONOX** PROJECT JOB # / P.O.#: **CWA-RCRA**

Sampler Signatures: *Thomas McDaniel* (Signature) *Susan Crowley* (Signature)

Tronox LLC - Henderson Plant  
PO Box 55  
Henderson, NV 89009

(702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)							SAMPLER COMMENTS	
							CL4	TDS	PH	SR	GRM				
535	2-2-10		F-D	RGW	X		X	X	X	X	X				4 BOTTLES
518	2-2-10		F-C	RGW	X		X	X	X	X	X				4 BOTTLES
515	2-2-10		F-S	RGW	X		X	X	X	X	X				4 BOTTLES
510	2-2-10		F-L	RGW	X		X	X	X	X	X				4 BOTTLES
508	2-2-10		F-R	RGW	X		X	X	X	X	X				4 BOTTLES
504	2-2-10		F-B	RGW	X		X	X	X	X	X				4 BOTTLES
525	2-2-10		F-AR	RGW	X		X	X	X	X	X				4 BOTTLES
				RGW	X		X	X	X	X	X				BOTTLES
				RGW	X		X	X	X	X	X				BOTTLES
				RGW	X		X	X	X	X	X				BOTTLES
				RGW	X		X	X	X	X	X				BOTTLES
				RGW	X		X	X	X	X	X				BOTTLES

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

Reported by Weight:  
CWW = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

RELINQUISHED BY: *Thomas McDaniel* (Signature) PRINT NAME: Thomas McDaniel

RECEIVED BY: *Ama Ojo* (Signature) COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RELINQUISHED BY: *Ama Ojo* (Signature) DATE: 2-2-10 TIME: 12:00 PM

RECEIVED BY: *Ama Ojo* (Signature) DATE: 2-3-10 TIME: 11:55



# CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES

MWLARS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: jc

SAMPLE TEMP, RECEIPT AT LAB: jc

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **TRONOX**  
 PROJECT JOB # / P.O.#: **CWA-PCBA**  
 Sampler Signature: *Thomas McDaniel*  
 Thomas McDaniel  
 PO Box 55  
 Henderson, NV 89009  
 Susan Crowley (702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES										<input checked="" type="checkbox"/> (check for yes)		
ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER COMMENTS		
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	TS	FP	GR	CRV	
617	2-2-10		I-O	RGW	X		X	X	X	X		4 BOTTLES
614	2-2-10		I-P	RGW	X		X	X	X	X		4 BOTTLES
611	2-2-10		I-H	RGW	X		X	X	X	X		4 BOTTLES
—	2-2-10		I-U	RGW	X		X	X	X	X		4 BOTTLES
608	2-2-10		I-T	RGW	X		X	X	X	X		4 BOTTLES
—	2-2-10		I-G	RGW	X		X	X	X	X		4 BOTTLES
602	2-2-10		I-Q	RGW	X		X	X	X	X		4 BOTTLES
547	2-2-10		I-F	RGW	X		X	X	X	X		4 BOTTLES
544	2-2-10		I-N	RGW	X		X	X	X	X		4 BOTTLES
541	2-2-10		I-E	RGW	X		X	X	X	X		4 BOTTLES
538	2-2-10		I-M	RGW	X		X	X	X	X		4 BOTTLES

\* MATRIX TYPES: Reported by Volume:  
 CFW = Chlor(am)inated Finished Water  
 FW = Other Finished Water

Reported by Weight:  
 SO = Soil  
 SL = Sludge  
 CWW = Chlorinated Waste Water  
 WW = Other Waste Water  
 SW = Storm Water  
 RGW = Raw Ground Water  
 RSW = Raw Surface Water

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	<i>Thomas McDaniel</i>	Thomas McDaniel	Veolia Water NA for Tronox LLC - Henderson Plant	2-2-10	12:00 PM
RECEIVED BY:	<i>Anna Cooper</i>	Anna Cooper	MWLT	2-3-10	11:55
RELINQUISHED BY:					
RECEIVED BY:					



750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

MVLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB: *JK*

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB# / P.O.#

TRONOX: CWA-RGRA

Sampler Signature: *Thomas McDaniel*

Thomas McDaniel  
PO Box 55  
Henderson, NV 89009

Susan Crowley (702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLOR	TDS	FE	CR	CRY	SAMPLER COMMENTS
605	2-2-10		F-AA	RGW	X		X	X	X			4 BOTTLES
923	2-2-10		N-131	RGW	X		X	X	X			4 BOTTLES
934	2-2-10		M-57A	RGW	X		X	X	X			4 BOTTLES
1018	2-2-10		M-64	RGW	X		X	X	X			4 BOTTLES
1028	2-2-10		M-65	RGW	X		X	X	X			4 BOTTLES
1040	2-2-10		M-66	RGW	X		X	X	X			4 BOTTLES
1051	2-2-10		M-79	RGW	X		X	X	X			4 BOTTLES
1105	2-2-10		M-69	RGW	X		X	X	X			4 BOTTLES
1115	2-2-10		M-135	RGW	X		X	X	X			4 BOTTLES
1125	2-2-10		M-99	RGW	X		X	X	X			4 BOTTLES
1200	2-2-10		M-25	RGW	X		X	X	X			4 BOTTLES

\* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water FW = Other Finished Water  
 Reported by Weight: CWW = Chlorinated Waste Water WW = Other Waste Water SW = Storm Water  
 SO = Soil SL = Sludge

RELINQUISHED BY: *Thomas McDaniel* SIGNATURE: *Thomas McDaniel* PRINT NAME: Thomas McDaniel

RECEIVED BY: *Alex Propera* SIGNATURE: *Alex Propera* COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RELINQUISHED BY: DATE: 2-2-10 TIME: 12:00 PM

RECEIVED BY: DATE: 2-3-10 TIME: 11:55



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

MYLABS USE ONLY:

SAMPLES CHECKED/LOGGED IN BY: \_\_\_\_\_

SAMPLE TEMP, RECEIPT AT LAB: 20

BLUE ICE: FROZEN \_\_\_\_\_ PARTIALLY FROZEN \_\_\_\_\_ THAWED \_\_\_\_\_

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **TRONOX** PROJECT JOB # / P.O.#: **097-RCRA**

Sampler Signature: *Thomas McDaniel* Tronox LLC - Henderson Plant  
PO Box 55  
Henderson, NV 89009

Susan Crowley (702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	TDS	TH	CR	CRV	SAMPLER COMMENTS
1230	2-2-10		M-37	RGW	X		X	X	X	X	X	5 BOTTLES
1056	2-2-10		EB-1	RGW	X		X	X	X	X	X	5 BOTTLES
	2-2-10		MD-4	RGW	X		X	X	X	X	X	4 BOTTLES
1315	2-2-10		M-10	RGW	X		X	X	X	X	X	5 BOTTLES
933				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES
				RGW	X		X	X	X	X	X	BOTTLES

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

Reported by Weight:  
SO = Soil  
SL = Sludge

RGW = Raw Ground Water  
RSW = Raw Surface Water  
CWW = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

RELINQUISHED BY: *Thomas McDaniel* SIGNATURE: \_\_\_\_\_ PRINT NAME: Thomas McDaniel

RECEIVED BY: *Alma Deyan* SIGNATURE: \_\_\_\_\_ COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

RELINQUISHED BY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: 2-2-10 TIME: 12:00 PM

RECEIVED BY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: 2-3-10 TIME: 11:55

Group#
Date Sampled
Date Received

Linda Geddes Your MWHL Project Manager

Client Code TRONOX  
 Project Code CWA-RCRA Bottle Orders  
 Group Name CR6010 Quarterly  
 PO# / Job#

**Sampler: please return  
 this paper with your samples**

BO #: 11184  
 Created By: LXG  
 Order Date: 11/12/2009

Bottle Orders

**Ship Sample Kits to**  
 Veolia Water-Tronox LLC  
 Gate 1  
 560 West Lake Mead Pkwy  
 Henderson, NV 89015

**Send Report to**  
 Tronox LLC  
 PO Box 55  
 Henderson, NV 89009

Ship By:
11/27/2009

Attn: Wendy Prescott  
 Phone:  
 Fax:

Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

**Billing Address**  
 Tronox LLC  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

# of Samples	Chromium	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
100	Total ICAP RCRA			1 250ml acid rinsed 1ml HNO3 (18%)	
15	CRVI 71963			1 125ml poly acid rinsed no preservative	
100	Perchlorate			1 125ml poly CLO4 - no preservative	
100	PH by EPA 9040			1 125ml poly no preservative	
100	Total Dissolved Solid (TDS)			1 500ml poly TDS - no preservative	

Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

February 23, 2010

Ms. Susan Crowley  
Tronox  
PO Box 55  
Henderson, NV 89009

Subject: Case Narrative report 325143

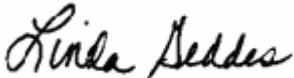
Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 03, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:  
For the MWH Laboratories data the following issues were observed:

Other Observations:

Hexavalent Chromium samples were received and analyzed after the 24 hour holding time had been exceeded. Data is flagged H3.

Sincerely,



Linda Geddes  
Project Manager





**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

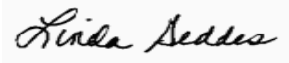
Tronox LLC  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

**Laboratory Comments**  
**Report: #325143**

---

**Client specific Comments**

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:  \_\_\_\_\_

**Flags Legend:**

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



# MWH

## LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 325143

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002030295 I-D</b>						
02/11/2010	05:01	Chromium Total ICAP	8.0		mg/L	0.05
02/09/2010	19:35	Perchlorate	760000	6	ug/L	80000
02/04/2010	11:56	PH (H3=past HT not compliant)	7.7		Units	0.1
02/04/2010	14:11	Total Dissolved Solids (TDS)	8000	500	mg/L	10
<b>201002030338 I-C</b>						
02/11/2010	05:06	Chromium Total ICAP	3.9		mg/L	0.01
02/09/2010	19:58	Perchlorate	870000	6	ug/L	80000
02/04/2010	11:59	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	14:12	Total Dissolved Solids (TDS)	6700	500	mg/L	10
<b>201002030339 I-S</b>						
02/11/2010	05:10	Chromium Total ICAP	1.6		mg/L	0.01
02/09/2010	20:20	Perchlorate	840000	6	ug/L	80000
02/04/2010	12:03	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	14:13	Total Dissolved Solids (TDS)	5200	500	mg/L	10
<b>201002030340 I-L</b>						
02/11/2010	05:15	Chromium Total ICAP	0.69		mg/L	0.01
02/09/2010	20:43	Perchlorate	1800000	6	ug/L	200000
02/04/2010	12:07	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	14:14	Total Dissolved Solids (TDS)	5900	500	mg/L	10
<b>201002030341 I-R</b>						
02/11/2010	04:22	Chromium Total ICAP	0.36		mg/L	0.01
02/09/2010	21:27	Perchlorate	2600000	6	ug/L	200000
02/04/2010	12:20	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	14:17	Total Dissolved Solids (TDS)	6800	500	mg/L	10
<b>201002030342 I-B</b>						
02/11/2010	04:44	Chromium Total ICAP	0.23		mg/L	0.01
02/09/2010	21:50	Perchlorate	750000	6	ug/L	80000
02/04/2010	12:24	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	14:15	Total Dissolved Solids (TDS)	4600	500	mg/L	10
<b>201002030343 I-AR</b>						
02/11/2010	05:20	Chromium Total ICAP	0.84		mg/L	0.01
02/09/2010	22:12	Perchlorate	2900000	6	ug/L	200000
02/04/2010	12:28	PH (H3=past HT not compliant)	7.6		Units	0.1



# MWH

## LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 325143

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/04/2010 14:18	Total Dissolved Solids (TDS)		5800	500	mg/L	10
	<b>201002030344</b>	<b><u>I-O</u></b>				
02/11/2010 05:25	Chromium Total ICAP		23		mg/L	0.1
02/09/2010 22:35	Perchlorate		1800000	6	ug/L	200000
02/04/2010 11:12	PH (H3=past HT not compliant)		7.7		Units	0.1
02/04/2010 14:19	Total Dissolved Solids (TDS)		12000	500	mg/L	10
	<b>201002030345</b>	<b><u>I-P</u></b>				
02/11/2010 05:44	Chromium Total ICAP		27		mg/L	0.1
02/09/2010 22:57	Perchlorate		1700000	6	ug/L	200000
02/04/2010 11:16	PH (H3=past HT not compliant)		7.6		Units	0.1
02/04/2010 14:20	Total Dissolved Solids (TDS)		14000	500	mg/L	10
	<b>201002030346</b>	<b><u>I-H</u></b>				
02/11/2010 05:49	Chromium Total ICAP		30		mg/L	0.1
02/12/2010 14:29	Perchlorate		1500000	6	ug/L	80000
02/04/2010 11:19	PH (H3=past HT not compliant)		7.7		Units	0.1
02/04/2010 14:21	Total Dissolved Solids (TDS)		16000	500	mg/L	10
	<b>201002030347</b>	<b><u>I-T</u></b>				
02/11/2010 05:54	Chromium Total ICAP		30		mg/L	0.2
02/09/2010 23:42	Perchlorate		1800000	6	ug/L	200000
02/04/2010 11:34	PH (H3=past HT not compliant)		7.2		Units	0.1
02/04/2010 14:22	Total Dissolved Solids (TDS)		15000	500	mg/L	10
	<b>201002030348</b>	<b><u>I-Q</u></b>				
02/11/2010 05:58	Chromium Total ICAP		14		mg/L	0.05
02/10/2010 00:04	Perchlorate		890000	6	ug/L	200000
02/04/2010 11:38	PH (H3=past HT not compliant)		7.8		Units	0.1
02/04/2010 14:23	Total Dissolved Solids (TDS)		9900	500	mg/L	10
	<b>201002030349</b>	<b><u>I-F</u></b>				
02/11/2010 06:03	Chromium Total ICAP		21		mg/L	0.05
02/10/2010 00:27	Perchlorate		1300000	6	ug/L	80000
02/04/2010 11:41	PH (H3=past HT not compliant)		7.6		Units	0.1
02/04/2010 14:24	Total Dissolved Solids (TDS)		13000	500	mg/L	10
	<b>201002030350</b>	<b><u>I-N</u></b>				
02/11/2010 06:08	Chromium Total ICAP		13		mg/L	0.05



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Laboratory  
Hits Report: 325143

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/10/2010	00:49	Perchlorate	2800000	6	ug/L	200000
02/04/2010	11:45	PH (H3=past HT not compliant)	7.7		Units	0.1
02/04/2010	14:25	Total Dissolved Solids (TDS)	11000	500	mg/L	10
		<b>201002030351</b>	<b><u>I-E</u></b>			
02/11/2010	06:13	Chromium Total ICAP	11		mg/L	0.05
02/12/2010	14:52	Perchlorate	630000	6	ug/L	80000
02/04/2010	11:48	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	15:36	Total Dissolved Solids (TDS)	9100	500	mg/L	10
		<b>201002030352</b>	<b><u>I-M</u></b>			
02/11/2010	06:18	Chromium Total ICAP	10		mg/L	0.05
02/10/2010	16:46	Perchlorate	840000	6	ug/L	80000
02/04/2010	11:52	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	15:37	Total Dissolved Solids (TDS)	8800	500	mg/L	10
		<b>201002030353</b>	<b><u>I-AA</u></b>			
02/11/2010	06:23	Chromium Total ICAP	0.064		mg/L	0.01
02/12/2010	21:57	Perchlorate	90000	6	ug/L	20000
02/04/2010	10:22	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	15:38	Total Dissolved Solids (TDS)	3500	500	mg/L	10
		<b>201002030354</b>	<b><u>M-131</u></b>			
02/11/2010	06:28	Chromium Total ICAP	0.10		mg/L	0.01
02/10/2010	17:31	Perchlorate	64000	6	ug/L	4000
02/04/2010	10:25	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	15:39	Total Dissolved Solids (TDS)	3100	500	mg/L	10
		<b>201002030355</b>	<b><u>M-57A</u></b>			
02/17/2010	20:09	Chromium Total ICAP	0.063		mg/L	0.02
02/10/2010	17:53	Perchlorate	24000	6	ug/L	2000
02/04/2010	10:29	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	15:40	Total Dissolved Solids (TDS)	3000	500	mg/L	10
		<b>201002030356</b>	<b><u>M-64</u></b>			
02/17/2010	20:13	Chromium Total ICAP	6.3		mg/L	0.02
02/10/2010	18:15	Perchlorate	540000	6	ug/L	40000
02/04/2010	10:32	PH (H3=past HT not compliant)	8.0		Units	0.1
02/04/2010	15:41	Total Dissolved Solids (TDS)	5600	500	mg/L	10
		<b>201002030357</b>	<b><u>M-65</u></b>			



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02/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/17/2010	20:18	Chromium Total ICAP	28		mg/L	0.1
02/10/2010	19:00	Perchlorate	1300000	6	ug/L	200000
02/04/2010	10:47	PH (H3=past HT not compliant)	7.6		Units	0.1
02/04/2010	15:42	Total Dissolved Solids (TDS)	15000	500	mg/L	10
		<b>201002030358</b>	<b>M-66</b>			
02/17/2010	20:23	Chromium Total ICAP	29		mg/L	0.1
02/12/2010	22:20	Perchlorate	1500000	6	ug/L	200000
02/04/2010	10:50	PH (H3=past HT not compliant)	7.5		Units	0.1
02/04/2010	15:43	Total Dissolved Solids (TDS)	16000	500	mg/L	10
		<b>201002030359</b>	<b>M-79</b>			
02/17/2010	20:28	Chromium Total ICAP	0.065		mg/L	0.02
02/10/2010	19:45	Perchlorate	18000	6	ug/L	800
02/04/2010	10:54	PH (H3=past HT not compliant)	8.0		Units	0.1
02/04/2010	15:45	Total Dissolved Solids (TDS)	1900	500	mg/L	10
		<b>201002030360</b>	<b>M-69</b>			
02/17/2010	20:32	Chromium Total ICAP	0.23		mg/L	0.02
02/10/2010	20:07	Perchlorate	820000	6	ug/L	40000
02/04/2010	10:58	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	15:44	Total Dissolved Solids (TDS)	4800	500	mg/L	10
		<b>201002030361</b>	<b>M-135</b>			
02/17/2010	20:50	Chromium Total ICAP	0.076		mg/L	0.02
02/10/2010	20:30	Perchlorate	47000	6	ug/L	4000
02/04/2010	11:01	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	15:47	Total Dissolved Solids (TDS)	3400	500	mg/L	10
		<b>201002030362</b>	<b>M-99</b>			
02/17/2010	20:55	Chromium Total ICAP	0.66		mg/L	0.02
02/12/2010	22:42	Perchlorate	480000	6	ug/L	40000
02/04/2010	11:05	PH (H3=past HT not compliant)	7.9		Units	0.1
02/04/2010	15:48	Total Dissolved Solids (TDS)	4600	500	mg/L	10
		<b>201002030363</b>	<b>M-25</b>			
02/17/2010	20:59	Chromium Total ICAP	11		mg/L	0.02
02/10/2010	21:15	Perchlorate	450000	6	ug/L	40000
02/04/2010	11:08	PH (H3=past HT not compliant)	7.8		Units	0.1
02/04/2010	15:49	Total Dissolved Solids (TDS)	8200	500	mg/L	10



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Samples Received on:  
02/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002030364      <u>M-37</u></b>						
02/17/2010	19:38 Chromium Total ICAP		0.023		mg/L	0.02
02/12/2010	15:14 Perchlorate		1700000	6	ug/L	400000
02/04/2010	12:31 PH (H3=past HT not compliant)		7.5		Units	0.1
02/04/2010	15:50 Total Dissolved Solids (TDS)		4400	500	mg/L	10
<b>201002030365      <u>EB-1</u></b>						
02/10/2010	21:59 Perchlorate		19	6	ug/L	8
02/04/2010	12:34 PH (H3=past HT not compliant)		6.2		Units	0.1
<b>201002030366      <u>MD-4</u></b>						
02/17/2010	21:04 Chromium Total ICAP		29		mg/L	0.1
02/12/2010	16:44 Perchlorate		1200000	6	ug/L	80000
02/04/2010	12:38 PH (H3=past HT not compliant)		7.6		Units	0.1
02/04/2010	15:52 Total Dissolved Solids (TDS)		15000	500	mg/L	10
<b>201002030367      <u>M-10</u></b>						
02/17/2010	21:09 Chromium Total ICAP		1.1		mg/L	0.02
02/03/2010	15:15 Hexavalent chromium (Cr VI)		0.33		mg/L	0.025
02/12/2010	17:06 Perchlorate		17000	6	ug/L	2000
02/04/2010	12:42 PH (H3=past HT not compliant)		7.9		Units	0.1
02/04/2010	15:53 Total Dissolved Solids (TDS)		3000	500	mg/L	10



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Laboratory Data  
Report: 325143

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Samples Received on:  
02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>I-D (201002030295)</u></b>								<b>Sampled on 02/02/2010 0535</b>
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:01	541721 (EPA 6010)	Chromium Total ICAP	8.0	mg/L	0.05	5
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	19:35	540915 (EPA 314.0)	Perchlorate	760000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:11	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:56	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>I-C (201002030338)</u></b>								<b>Sampled on 02/02/2010 0518</b>
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:06	541721 (EPA 6010)	Chromium Total ICAP	3.9	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	19:58	540915 (EPA 314.0)	Perchlorate	870000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:12	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:59	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>I-S (201002030339)</u></b>								<b>Sampled on 02/02/2010 0515</b>
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:10	541721 (EPA 6010)	Chromium Total ICAP	1.6	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	20:20	540915 (EPA 314.0)	Perchlorate	840000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:13	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:03	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>I-L (201002030340)</u></b>								<b>Sampled on 02/02/2010 0510</b>
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:15	541721 (EPA 6010)	Chromium Total ICAP	0.69	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	20:43	540915 (EPA 314.0)	Perchlorate	1800000	ug/L	200000	50000

Rounding on totals after summation.  
(c) - indicates calculated results



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Laboratory Data  
 Report: 325143

**Tronox LLC**  
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 Henderson, NV 89009

Samples Received on:  
 02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:14 541542	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:07 540770	(EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>I-R (201002030341)</u></b>						<b>Sampled on 02/02/2010 0507</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	04:22 541721	(EPA 6010)	Chromium Total ICAP	0.36	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	21:27 540915	(EPA 314.0)	Perchlorate	2600000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:17 541542	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:20 540770	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-B (201002030342)</u></b>						<b>Sampled on 02/02/2010 0504</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	04:44 541721	(EPA 6010)	Chromium Total ICAP	0.23	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	21:50 540915	(EPA 314.0)	Perchlorate	750000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:15 541542	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	4600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:24 540770	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-AR (201002030343)</u></b>						<b>Sampled on 02/02/2010 0525</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:20 541721	(EPA 6010)	Chromium Total ICAP	0.84	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	22:12 540915	(EPA 314.0)	Perchlorate	2900000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:18 541542	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:28 540770	(EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>I-O (201002030344)</u></b>						<b>Sampled on 02/02/2010 0617</b>		





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Samples Received on:  
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:25	541721 (EPA 6010)	Chromium Total ICAP	23	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	22:35	540915 (EPA 314.0)	Perchlorate	1800000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:19	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	12000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:12	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>I-P (201002030345)</u></b>						<b>Sampled on 02/02/2010 0614</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:44	541721 (EPA 6010)	Chromium Total ICAP	27	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	22:57	540915 (EPA 314.0)	Perchlorate	1700000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:20	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	14000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:16	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>I-H (201002030346)</u></b>						<b>Sampled on 02/02/2010 0611</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:49	541721 (EPA 6010)	Chromium Total ICAP	30	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	14:29	542059 (EPA 314.0)	Perchlorate	1500000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:21	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	16000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:19	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>I-T (201002030347)</u></b>						<b>Sampled on 02/02/2010 0608</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:54	541721 (EPA 6010)	Chromium Total ICAP	30	mg/L	0.2	20
<b>EPA 314.0 - Perchlorate</b>								
	02/09/2010	23:42	540915 (EPA 314.0)	Perchlorate	1800000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:22	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1

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 02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:34	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.2	Units	0.1	1
<b>I-Q (201002030348)</b>						<b>Sampled on 02/02/2010 0602</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	05:58	541721 (EPA 6010)	Chromium Total ICAP	14	mg/L	0.05	5
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	00:04	540915 (EPA 314.0)	Perchlorate	890000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:23	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	9900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:38	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b>I-F (201002030349)</b>						<b>Sampled on 02/02/2010 0547</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:03	541721 (EPA 6010)	Chromium Total ICAP	21	mg/L	0.05	5
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	00:27	540915 (EPA 314.0)	Perchlorate	1300000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:24	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	13000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:41	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b>I-N (201002030350)</b>						<b>Sampled on 02/02/2010 0544</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:08	541721 (EPA 6010)	Chromium Total ICAP	13	mg/L	0.05	5
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	00:49	540915 (EPA 314.0)	Perchlorate	2800000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	14:25	541542 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	11000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:45	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b>I-E (201002030351)</b>						<b>Sampled on 02/02/2010 0541</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:13	541721 (EPA 6010)	Chromium Total ICAP	11	mg/L	0.05	5

Rounding on totals after summation.  
 (c) - indicates calculated results



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Laboratory Data  
Report: 325143

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	14:52	542059 (EPA 314.0)	Perchlorate	630000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:36	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	9100	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:48	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-M (201002030352)</u></b>						<b>Sampled on 02/02/2010 0538</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:18	541721 (EPA 6010)	Chromium Total ICAP	10	mg/L	0.05	5
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	16:46	541608 (EPA 314.0)	Perchlorate	840000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:37	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:52	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-AA (201002030353)</u></b>						<b>Sampled on 02/02/2010 0605</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:23	541721 (EPA 6010)	Chromium Total ICAP	0.064	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	21:57	542059 (EPA 314.0)	Perchlorate	90000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:38	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3500	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:22	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-131 (201002030354)</u></b>						<b>Sampled on 02/02/2010 0923</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/11/2010	06:28	541721 (EPA 6010)	Chromium Total ICAP	0.10	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	17:31	541608 (EPA 314.0)	Perchlorate	64000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:39	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3100	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:25	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1

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**Laboratory Data  
Report: 325143**

Samples Received on:  
02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>M-57A (201002030355)</u></b>								<b>Sampled on 02/02/2010 0934</b>
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:09	542222 (EPA 6010)	Chromium Total ICAP	0.063	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	17:53	541608 (EPA 314.0)	Perchlorate	24000	ug/L	2000	500
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:40	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:29	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-64 (201002030356)</u></b>								<b>Sampled on 02/02/2010 1010</b>
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:13	542222 (EPA 6010)	Chromium Total ICAP	6.3	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	18:15	541608 (EPA 314.0)	Perchlorate	540000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:41	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:32	540597 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-65 (201002030357)</u></b>								<b>Sampled on 02/02/2010 1025</b>
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:18	542222 (EPA 6010)	Chromium Total ICAP	28	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	19:00	541608 (EPA 314.0)	Perchlorate	1300000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:42	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:47	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>M-66 (201002030358)</u></b>								<b>Sampled on 02/02/2010 1040</b>
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:23	542222 (EPA 6010)	Chromium Total ICAP	29	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	22:20	542059 (EPA 314.0)	Perchlorate	1500000	ug/L	200000	50000

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**Tronox LLC**  
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Samples Received on:  
 02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:43	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	16000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:50	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b><u>M-79 (201002030359)</u></b>						<b>Sampled on 02/02/2010 1051</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:28	542222 (EPA 6010)	Chromium Total ICAP	0.065	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	19:45	541608 (EPA 314.0)	Perchlorate	18000	ug/L	800	200
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:45	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:54	540597 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-69 (201002030360)</u></b>						<b>Sampled on 02/02/2010 1105</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:32	542222 (EPA 6010)	Chromium Total ICAP	0.23	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	20:07	541608 (EPA 314.0)	Perchlorate	820000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:44	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4800	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	10:58	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-135 (201002030361)</u></b>						<b>Sampled on 02/02/2010 1115</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:50	542222 (EPA 6010)	Chromium Total ICAP	0.076	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	20:30	541608 (EPA 314.0)	Perchlorate	47000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:47	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:01	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-99 (201002030362)</u></b>						<b>Sampled on 02/02/2010 1125</b>		



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Laboratory Data  
Report: 325143

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Samples Received on:  
02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:55	542222 (EPA 6010)	Chromium Total ICAP	0.66	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	22:42	542059 (EPA 314.0)	Perchlorate	480000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:48	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:05	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-25 (201002030363)</u></b>						<b>Sampled on 02/02/2010 1200</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	20:59	542222 (EPA 6010)	Chromium Total ICAP	11	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	21:15	541608 (EPA 314.0)	Perchlorate	450000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:49	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	11:08	540597 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-37 (201002030364)</u></b>						<b>Sampled on 02/02/2010 1230</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/03/2010	15:35	540583 (EPA 7196)	Hexavalent chromium (Cr VI)	ND (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	19:38	542222 (EPA 6010)	Chromium Total ICAP	0.023	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	15:14	542059 (EPA 314.0)	Perchlorate	1700000	ug/L	400000	100000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:50	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:31	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b><u>EB-1 (201002030365)</u></b>						<b>Sampled on 02/02/2010 1056</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/03/2010	15:30	540583 (EPA 7196)	Hexavalent chromium (Cr VI)	ND (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	19:59	542222 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.02	2

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Laboratory Data  
Report: 325143

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Samples Received on:  
02/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 314.0 - Perchlorate</b>								
	02/10/2010	21:59	541608 (EPA 314.0)	Perchlorate	19	ug/L	8	2
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:51	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:34	540770 (EPA 9040)	PH (H3=past HT not compliant)	6.2	Units	0.1	1
<b><u>MD-4 (201002030366)</u></b>						<b>Sampled on 02/02/2010 0000</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:04	542222 (EPA 6010)	Chromium Total ICAP	29	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	16:44	542059 (EPA 314.0)	Perchlorate	1200000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:52	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:38	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>M-10 (201002030367)</u></b>						<b>Sampled on 02/02/2010 1315</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/03/2010	15:15	540583 (EPA 7196)	Hexavalent chromium (Cr VI)	0.33 (H3)	mg/L	0.025	5
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:09	542222 (EPA 6010)	Chromium Total ICAP	1.1	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	17:06	542059 (EPA 314.0)	Perchlorate	17000	ug/L	2000	500
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/4/2010	02/04/2010	15:53	541538 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/04/2010	12:42	540770 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1



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Laboratory
QC Summary: 325143

Tronox LLC

QC Ref # 540583 - Hexavalent Chromium by EPA 7196

201002030364 M-37
201002030365 EB-1
201002030367 M-10

Analysis Date: 02/03/2010

Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK

QC Ref # 540597 - PH (H3=past HT not compliant)

201002030344 I-O
201002030345 I-P
201002030346 I-H
201002030353 I-AA
201002030354 M-131
201002030355 M-57A
201002030356 M-64
201002030357 M-65
201002030358 M-66
201002030359 M-79
201002030360 M-69
201002030361 M-135
201002030362 M-99
201002030363 M-25

Analysis Date: 02/04/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
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QC Ref # 540770 - PH (H3=past HT not compliant)

201002030295 I-D
201002030338 I-C
201002030339 I-S
201002030340 I-L
201002030341 I-R
201002030342 I-B
201002030343 I-AR
201002030347 I-T
201002030348 I-Q
201002030349 I-F
201002030350 I-N
201002030351 I-E
201002030352 I-M
201002030364 M-37
201002030365 EB-1
201002030366 MD-4
201002030367 M-10

Analysis Date: 02/04/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
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Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 540915 - Perchlorate

201002030295 I-D
201002030338 I-C
201002030339 I-S
201002030340 I-L
201002030341 I-R
201002030342 I-B
201002030343 I-AR

Analysis Date: 02/09/2010

Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ





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Tronox LLC  
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201002030344	I-O	Analyzed by: SZZ
201002030345	I-P	Analyzed by: SZZ
201002030347	I-T	Analyzed by: SZZ
201002030348	I-Q	Analyzed by: SZZ
201002030349	I-F	Analyzed by: SZZ
201002030350	I-N	Analyzed by: SZZ

**QC Ref # 541538 - Total Dissolved Solids (TDS)**

201002030351	I-E
201002030352	I-M
201002030353	I-AA
201002030354	M-131
201002030355	M-57A
201002030356	M-64
201002030357	M-65
201002030358	M-66
201002030359	M-79
201002030360	M-69
201002030361	M-135
201002030362	M-99
201002030363	M-25
201002030364	M-37
201002030365	EB-1
201002030366	MD-4
201002030367	M-10

**Analysis Date: 02/04/2010**

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

**QC Ref # 541542 - Total Dissolved Solids (TDS)**

201002030295	I-D
201002030338	I-C
201002030339	I-S
201002030340	I-L
201002030341	I-R
201002030342	I-B
201002030343	I-AR
201002030344	I-O
201002030345	I-P
201002030346	I-H
201002030347	I-T
201002030348	I-Q
201002030349	I-F
201002030350	I-N

**Analysis Date: 02/04/2010**

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

**QC Ref # 541608 - Perchlorate**

201002030352	I-M
201002030354	M-131
201002030355	M-57A
201002030356	M-64
201002030357	M-65

**Analysis Date: 02/10/2010**

Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ
Analyzed by: SZZ



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Tronox LLC  
(continued)

201002030359	M-79	Analyzed by: SZZ
201002030360	M-69	Analyzed by: SZZ
201002030361	M-135	Analyzed by: SZZ
201002030363	M-25	Analyzed by: SZZ
201002030365	EB-1	Analyzed by: SZZ

**QC Ref # 541721 - ICP Metals**

**Analysis Date: 02/11/2010**

201002030295	I-D	Analyzed by: NINA
201002030338	I-C	Analyzed by: NINA
201002030339	I-S	Analyzed by: NINA
201002030340	I-L	Analyzed by: NINA
201002030341	I-R	Analyzed by: NINA
201002030342	I-B	Analyzed by: NINA
201002030343	I-AR	Analyzed by: NINA
201002030344	I-O	Analyzed by: NINA
201002030345	I-P	Analyzed by: NINA
201002030346	I-H	Analyzed by: NINA
201002030347	I-T	Analyzed by: NINA
201002030348	I-Q	Analyzed by: NINA
201002030349	I-F	Analyzed by: NINA
201002030350	I-N	Analyzed by: NINA
201002030351	I-E	Analyzed by: NINA
201002030352	I-M	Analyzed by: NINA
201002030353	I-AA	Analyzed by: NINA
201002030354	M-131	Analyzed by: NINA

**QC Ref # 542059 - Perchlorate**

**Analysis Date: 02/12/2010**

201002030346	I-H	Analyzed by: SZZ
201002030351	I-E	Analyzed by: SZZ
201002030353	I-AA	Analyzed by: SZZ
201002030358	M-66	Analyzed by: SZZ
201002030362	M-99	Analyzed by: SZZ
201002030364	M-37	Analyzed by: SZZ
201002030366	MD-4	Analyzed by: SZZ
201002030367	M-10	Analyzed by: SZZ

**QC Ref # 542222 - ICP Metals**

**Analysis Date: 02/17/2010**

201002030355	M-57A	Analyzed by: NINA
201002030356	M-64	Analyzed by: NINA
201002030357	M-65	Analyzed by: NINA
201002030358	M-66	Analyzed by: NINA
201002030359	M-79	Analyzed by: NINA
201002030360	M-69	Analyzed by: NINA
201002030361	M-135	Analyzed by: NINA
201002030362	M-99	Analyzed by: NINA
201002030363	M-25	Analyzed by: NINA
201002030364	M-37	Analyzed by: NINA
201002030365	EB-1	Analyzed by: NINA



**MWH**

**LABORATORIES**

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750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory  
QC Summary: 325143**

Tronox LLC

(continued)

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201002030366	MD-4	Analyzed by: NINA
201002030367	M-10	Analyzed by: NINA



# MWH

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Laboratory  
QC Report: 325143

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 540583 - Hexavalent Chromium by EPA 7196 by EPA 7196</b>					<b>Analysis Date: 02/03/2010</b>				
LCS1	Hexavalent chromium (Cr VI)		0.05	0.0540	mg/L	108	(85-115)		
LCS2	Hexavalent chromium (Cr VI)		0.05	0.0550	mg/L	110	(85-115)		
MBLK	Hexavalent chromium (Cr VI)			<0.005	mg/L				
MRL_CHK	Hexavalent chromium (Cr VI)		0.005	0.00500	mg/L	100	(50-150)		
MS_201002030367	Hexavalent chromium (Cr VI)	0.33	0.05	0.619	mg/L	115	(70-130)		
MSD_201002030367	Hexavalent chromium (Cr VI)	0.33	0.05	0.630	mg/L	120	(70-130)	20	4.3
<b>QC Ref# 540597 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/04/2010</b>				
DUP_201002030356	PH (H3=past HT not compliant)	8.0		7.99	Units		(0-20)	20	0.25
DUP2_201002030346	PH (H3=past HT not compliant)	7.7		7.7	Units		(0-20)	20	0.26
LCS1	PH (H3=past HT not compliant)		6.0	6.03	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.09	Units	102	(98-102)	20	0.49
<b>QC Ref# 540770 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/04/2010</b>				
DUP1_201002030340	PH (H3=past HT not compliant)	7.9		7.85	Units		(0-20)	20	0.25
DUP2_201002030367	PH (H3=past HT not compliant)	7.9		7.9	Units		(0-20)	20	0.38
LCS1	PH (H3=past HT not compliant)		6.0	6.09	Units	102	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.08	Units	101	(98-102)	20	0.16
<b>QC Ref# 540915 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/09/2010</b>				
LCS1	Perchlorate		25	26.2	ug/L	105	(85-115)		
LCS2	Perchlorate		25	27.3	ug/L	109	(85-115)	15	4.1
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.09	ug/L	102	(75-125)		
MRL_LW	Perchlorate		2.0	2.27	ug/L	113	(50-150)		
MS_201002020564	Perchlorate	33	25	60.5	ug/L	110	(80-120)		
MSD_201002020564	Perchlorate	33	25	60.4	ug/L	110	(80-120)	15	0.0
<b>QC Ref# 541538 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 02/04/2010</b>				
DUP_201002020668	Total Dissolved Solid (TDS)	820		822	mg/L		(0-10)	10	0.73
DUP_201002030359	Total Dissolved Solid (TDS)	1900		1850	mg/L		(0-10)	10	0.11
LCS1	Total Dissolved Solid (TDS)		175	176	mg/L	101	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	684	mg/L	98	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
<b>QC Ref# 541542 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 02/04/2010</b>				
DUP_201002020544	Total Dissolved Solid (TDS)	2400		2420	mg/L		(0-10)	10	0.083
DUP_201002030342	Total Dissolved Solid (TDS)	4600		4550	mg/L		(0-10)	10	0.35

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

31/33

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 325143

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Total Dissolved Solid (TDS)		175	188	mg/L	107	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	706	mg/L	101	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
<b>QC Ref# 541608 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/10/2010</b>				
LCS1	Perchlorate		25	26.9	ug/L	108	(85-115)		
LCS2	Perchlorate		25	27.7	ug/L	111	(85-115)	15	2.9
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.66	ug/L	92	(75-125)		
MRLLLW	Perchlorate		2.0	1.44	ug/L	72	(50-150)		
MS_201002080085	Perchlorate	ND	25	25.4	ug/L	102	(80-120)		
MSD_201002080085	Perchlorate	ND	25	26.0	ug/L	104	(80-120)	15	1.9
<b>QC Ref# 541721 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/11/2010</b>				
LCS1	Chromium Total ICAP		1.0	1.04	mg/L	104	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.925	mg/L	93	(85-115)	20	12
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0110	mg/L	110	(50-150)		
MS_201002030341	Chromium Total ICAP	0.36	1.0	1.37	mg/L	101	(70-130)		
MS2_201002030342	Chromium Total ICAP	0.23	1.0	1.2	mg/L	96	(70-130)		
MSD_201002030341	Chromium Total ICAP	0.36	1.0	1.32	mg/L	95	(70-130)	20	5.7
MSD2_201002030342	Chromium Total ICAP	0.23	1.0	1.2	mg/L	97	(70-130)	20	0.52
<b>QC Ref# 542059 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/12/2010</b>				
LCS1	Perchlorate		25	24.8	ug/L	99	(85-115)		
LCS2	Perchlorate		25	24.9	ug/L	100	(85-115)	15	0.40
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.59	ug/L	90	(75-125)		
MRLLLW	Perchlorate		2.0	1.57	ug/L	79	(50-150)		
MS_201002080087	Perchlorate	4.3	25	29.2	ug/L	99	(80-120)		
MSD_201002080087	Perchlorate	4.3	25	28.6	ug/L	97	(80-120)	15	2.0
<b>QC Ref# 542222 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/17/2010</b>				
LCS1	Chromium Total ICAP		1.0	0.982	mg/L	98	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.988	mg/L	99	(85-115)	20	0.61
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0103	mg/L	103	(50-150)		
MS_201002030364	Chromium Total ICAP	0.023	0.5	1.04	mg/L	102	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

32/33

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

## LABORATORIES

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1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Report: 325143

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201002030365	Chromium Total ICAP	ND	0.5	1.04	mg/L	104	(70-130)		
MSD_201002030364	Chromium Total ICAP	0.023	0.5	0.870	mg/L	85	(70-130)	20	19
MSD2_201002030365	Chromium Total ICAP	ND	0.5	1.02	mg/L	102	(70-130)	20	1.9

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

33/33

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



**MWH**

**LABORATORIES**

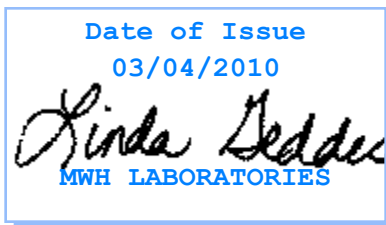
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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory Report**

for

Tronox LLC  
PO Box 55  
Henderson, NV 89009  
Attention: Susan Crowley  
Fax: 702-651-2310



LXG: Linda Geddes  
Project Manager



Report#: 325249  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325249  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 04, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002040119	I-K	03-Feb-2010 0737
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040120	I-J	03-Feb-2010 0741
	Chromium Total ICAP	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040121	I-Z	03-Feb-2010 0745
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040122	I-I	03-Feb-2010 0749
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040123	I-V	03-Feb-2010 0754
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040124	M-74	03-Feb-2010 0830
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040125	M-73	03-Feb-2010 0844
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040126	M-88	03-Feb-2010 0907
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002040127	M-87	03-Feb-2010 0856
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)



**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325249  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 04, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002040128	M-100	03-Feb-2010 1146
	Chromium Total ICAP RCRA PH (H3=past HT not compliant)	CRVI7196 Total Dissolved Solid (TDS)
		Perchlorate
201002040129	M-84	03-Feb-2010 1135
	Chromium Total ICAP RCRA PH (H3=past HT not compliant)	CRVI7196 Total Dissolved Solid (TDS)
		Perchlorate
201002040130	M-31A	03-Feb-2010 0551
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040131	M-52	03-Feb-2010 0612
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040132	M-50	03-Feb-2010 0628
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040133	M-34	03-Feb-2010 0641
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040134	M-35	03-Feb-2010 0653
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040135	M-19	03-Feb-2010 0706
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)
201002040136	M-39	03-Feb-2010 0720
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate
		PH (H3=past HT not compliant)

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325249  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 04, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002040137	M-68	03-Feb-2010 0732
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002040138	M-67	03-Feb-2010 0814
	Chromium Total ICAP RCRA	Perchlorate
	PH (H3=past HT not compliant)	
	Total Dissolved Solid (TDS)	
201002040139	M-12A	03-Feb-2010 1116
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Perchlorate
	Total Dissolved Solid (TDS)	
201002040140	M-11	03-Feb-2010 1105
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Perchlorate
	Total Dissolved Solid (TDS)	
201002040141	EB-2	03-Feb-2010 0819
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Perchlorate
	Total Dissolved Solid (TDS)	
201002040142	MD-2	03-Feb-2010 0000
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Perchlorate
	Total Dissolved Solid (TDS)	

**Test Description**



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

325249

MWLBS USE ONLY:

750 Royal Oaks dr. Suite 100 Montrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB: 40

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		SAMPLER COMMENTS															
TRONOX	CWA-RCRA	TRONOX LLC - Henderson Plant PO Box 55 Henderson, NV 89009	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	TDS	PH	CR	CR1	CL04	TDS	PH	CR	CR1	CL04	TDS	PH	CR	CR1		
737	2-3-10	I-K	RGW	X			X	X	X			X	X	X									4 BOTTLES
741	2-3-10	I-J	RGW	X			X	X	X			X	X	X									4 BOTTLES
745	2-3-10	I-Z	RGW	X			X	X	X			X	X	X									4 BOTTLES
749	2-3-10	I-I	RGW	X			X	X	X			X	X	X									4 BOTTLES
754	2-3-10	I-V	RGW	X			X	X	X			X	X	X									4 BOTTLES
830	2-3-10	M-74	RGW	X			X	X	X			X	X	X									4 BOTTLES
844	2-3-10	M-73	RGW	X			X	X	X			X	X	X									4 BOTTLES
907	2-3-10	M-88	RGW	X			X	X	X			X	X	X									4 BOTTLES
856	2-3-16	M-87	RGW	X			X	X	X			X	X	X									4 BOTTLES
1140	2-3-10	M-100	RGW	X			X	X	X			X	X	X									5 BOTTLES
1135	2-3-10	M-84	RGW	X			X	X	X			X	X	X									5 BOTTLES

\* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water FW = Other Finished Water

Reported by Weight: CWW = Chlorinated Waste Water WW = Other Waste Water SW = Storm Water

SO = Soil SL = Sludge

RELINQUISHED BY: <u>Thomas McDaniel</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: <u>Amy Ortega</u>		Thomas McDaniel	Veolia Water NA for Tronox LLC - Henderson Plant	2-3-10	12:00 PM
RELINQUISHED BY:					
RECEIVED BY:					



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

MWLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: \_\_\_\_\_

SAMPLE TEMP, RECEIPT AT LAB: yc

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: \_\_\_\_\_ PROJECT JOB # / P.O.#: \_\_\_\_\_  
 TRONOX CWA-9029  
 Sampler Signature: *Thomas McDaniel* Thomas McDaniel Tronox LLC - Henderson Plant  
 Susan Crowley (702) 651-2234 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER COMMENTS	
CL	CO	TDS	PH	SR	CRM								
1	X	X	X	X	X								4 BOTTLES
2	X	X	X	X	X								4 BOTTLES
3	X	X	X	X	X								4 BOTTLES
4	X	X	X	X	X								4 BOTTLES
5	X	X	X	X	X								4 BOTTLES
6	X	X	X	X	X								4 BOTTLES
7	X	X	X	X	X								4 BOTTLES
8	X	X	X	X	X								4 BOTTLES
9	X	X	X	X	X								4 BOTTLES
10	X	X	X	X	X								4 BOTTLES
11	X	X	X	X	X								4 BOTTLES
12	X	X	X	X	X								4 BOTTLES
13	X	X	X	X	X								4 BOTTLES
14	X	X	X	X	X								4 BOTTLES
15	X	X	X	X	X								4 BOTTLES
16	X	X	X	X	X								4 BOTTLES
17	X	X	X	X	X								4 BOTTLES
18	X	X	X	X	X								4 BOTTLES
19	X	X	X	X	X								4 BOTTLES
20	X	X	X	X	X								4 BOTTLES

Reported by Weight:

SO = Soil  
SL = Sludge

CWW = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

Reported by Volume:

CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

RELINQUISHED BY: *Thomas McDaniel* SIGNATURE  
 RECEIVED BY: *Thomas Crowley* SIGNATURE  
 RELINQUISHED BY: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_

PRINT NAME: Thomas McDaniel  
 COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

DATE: 2-3-10  
 TIME: 12:00 PM

DATE: 2-4-10  
 TIME: 11:19



Group#
Date Sampled
Date Received

Linda Geddes Your MWHL Project Manager

Client Code TRONOX  
 Project Code CWA-RCRA Bottle Orders  
 Group Name CR6010 Quarterly  
 PO# / Job# \_\_\_\_\_

BO #: 11184

**Sampler: please return  
 this paper with your samples**

Created By: LXG

Order Date: 11/12/2009

Bottle Orders

Ship By: 11/27/2009
------------------------

**Ship Sample Kits to**

Veolia Water-Tronox LLC  
 Gate 1  
 560 West Lake Mead Pkwy  
 Henderson, NV 89015  
 Attn: Wendy Prescott  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**Send Report to**

Tronox LLC  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

**Billing Address**

Tronox LLC  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
100	Chromium Total ICAP RCRA		1 250ml acid rinsed 1ml HNO3 (18%)	
15	CRVI 7196		1 125ml poly acid rinsed no preservative	
100	Perchlorate		1 125ml poly ClO4 - no preservative	
100	PH by EPA 9040		1 125ml poly no preservative	
100	Total Dissolved Solid (TDS)		1 500ml poly TDS - no preservative	

**Comments**

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN - 24HR ht

Ship Date: 03FEB10  
ActWgt: 50.0 LB  
CAD: 70045654/INET3010



From: Origin ID: LASA (702) 651-2230  
Tironox  
Tironox  
8000 W. Lake Mead Parkway  
Henderson, NV 89015

10100912170224

SHIP TO: (626) 568-6400  
BILL SENDER

Attn: Sample Receiving  
Montgomery Watson Labs  
750 ROYAL OAKS DR STE 100  
MONROVIA, CA 91016



Delivery Address Bar Code

Ret # MSO #144110

Invoice #

PO #

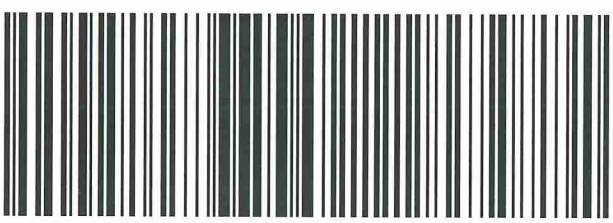
Dept #

THU - 04 FEB A1  
PRIORITY OVERNIGHT  
91016  
CA-US  
BUR

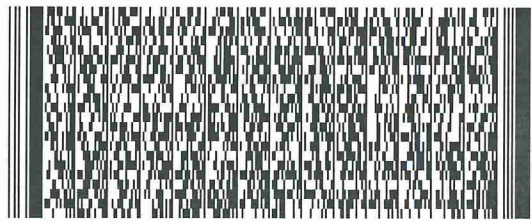
TRK# 7983 6097 3540

0201

QZ WHPA



5962C7335FEB



After printing this label:

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  2. Fold the printed page along the horizontal line.
  3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

March 04, 2010

Ms. Susan Crowley  
Tronox  
PO Box 55  
Henderson, NV 89009

Subject: Case Narrative report 325249

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 04, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:  
For the MWH Laboratories data the following issues were observed:

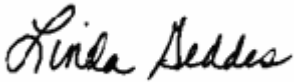
Report revised to correct the sample ID for 201002040127 from M87 to M-87. LXG 030410

(Hexavalent Chromium) The samples were received and analyzed after the 24 hour holding time was exceeded. Data is flagged H3.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Linda Geddes  
Project Manager





**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

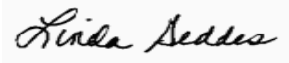
**Laboratory Comments  
Report: #325249**

Tronox LLC  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

---

**Client specific Comments**

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:  \_\_\_\_\_

**Group Comments**

Report revised to correct the sample ID for 201002040127 from M87 to M-87. LXG  
030410

(Hexavalent Chromium) The samples were received and analyzed after the 24 hour holding  
time was exceeded. Data is flagged H3.

**Flags Legend:**

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



# MWH

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Laboratory  
Hits Report: 325249

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002040119      <u>I-K</u></b>						
02/17/2010	21:13	Chromium Total ICAP	1.4		mg/L	0.02
02/12/2010	17:29	Perchlorate	120000	6	ug/L	20000
02/05/2010	10:24	PH (H3=past HT not compliant)	7.8		Units	0.1
02/09/2010	14:00	Total Dissolved Solids (TDS)	5600	500	mg/L	10
<b>201002040120      <u>I-J</u></b>						
02/17/2010	21:17	Chromium Total ICAP	2.9		mg/L	0.02
02/12/2010	17:51	Perchlorate	260000	6	ug/L	20000
02/05/2010	10:28	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	14:01	Total Dissolved Solids (TDS)	6400	500	mg/L	10
<b>201002040121      <u>I-Z</u></b>						
02/17/2010	21:22	Chromium Total ICAP	10		mg/L	0.02
02/12/2010	18:13	Perchlorate	470000	6	ug/L	40000
02/05/2010	10:31	PH (H3=past HT not compliant)	7.8		Units	0.1
02/09/2010	14:02	Total Dissolved Solids (TDS)	7700	500	mg/L	10
<b>201002040122      <u>I-I</u></b>						
02/17/2010	21:27	Chromium Total ICAP	17		mg/L	0.1
02/12/2010	18:36	Perchlorate	950000	6	ug/L	80000
02/05/2010	10:45	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	14:03	Total Dissolved Solids (TDS)	11000	500	mg/L	10
<b>201002040123      <u>I-V</u></b>						
02/17/2010	21:32	Chromium Total ICAP	18		mg/L	0.1
02/12/2010	19:21	Perchlorate	1600000	6	ug/L	200000
02/05/2010	10:49	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	14:04	Total Dissolved Solids (TDS)	12000	500	mg/L	10
<b>201002040124      <u>M-74</u></b>						
02/17/2010	21:46	Chromium Total ICAP	0.93		mg/L	0.02
02/12/2010	19:43	Perchlorate	74000	6	ug/L	4000
02/05/2010	10:52	PH (H3=past HT not compliant)	7.9		Units	0.1
02/09/2010	13:57	Total Dissolved Solids (TDS)	5500	500	mg/L	10
<b>201002040125      <u>M-73</u></b>						
02/17/2010	21:51	Chromium Total ICAP	5.7		mg/L	0.02
02/12/2010	20:05	Perchlorate	390000	6	ug/L	20000
02/05/2010	10:56	PH (H3=past HT not compliant)	7.8		Units	0.1

12/28

### SUMMARY OF POSITIVE DATA ONLY



# MWH

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Tel: 626 386 1100  
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1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 325249

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/09/2010	14:07	Total Dissolved Solids (TDS)	5300	500	mg/L	10
		<b>201002040126</b>				
		<b><u>M-88</u></b>				
02/18/2010	17:28	Chromium Total ICAP	0.79		mg/L	0.02
02/12/2010	20:28	Perchlorate	42000	6	ug/L	4000
02/05/2010	11:00	PH (H3=past HT not compliant)	7.9		Units	0.1
02/09/2010	14:08	Total Dissolved Solids (TDS)	5600	500	mg/L	10
		<b>201002040127</b>				
		<b><u>M-87</u></b>				
02/18/2010	17:33	Chromium Total ICAP	3.2		mg/L	0.02
02/12/2010	20:50	Perchlorate	340000	6	ug/L	20000
02/05/2010	11:03	PH (H3=past HT not compliant)	7.9		Units	0.1
02/09/2010	14:09	Total Dissolved Solids (TDS)	3700	500	mg/L	10
		<b>201002040128</b>				
		<b><u>M-100</u></b>				
02/18/2010	17:38	Chromium Total ICAP	0.10		mg/L	0.01
02/04/2010	14:30	Hexavalent chromium (Cr VI)	0.12		mg/L	0.005
02/15/2010	20:53	Perchlorate	5400	6	ug/L	2000
02/05/2010	11:07	PH (H3=past HT not compliant)	8.1		Units	0.1
02/09/2010	14:10	Total Dissolved Solids (TDS)	1400	500	mg/L	10
		<b>201002040129</b>				
		<b><u>M-84</u></b>				
02/04/2010	14:25	Hexavalent chromium (Cr VI)	0.0090		mg/L	0.005
02/15/2010	21:15	Perchlorate	1100	6	ug/L	80
02/05/2010	11:11	PH (H3=past HT not compliant)	8.0		Units	0.1
02/09/2010	14:11	Total Dissolved Solids (TDS)	1300	500	mg/L	10
		<b>201002040130</b>				
		<b><u>M-31A</u></b>				
02/18/2010	17:47	Chromium Total ICAP	11		mg/L	0.02
02/13/2010	03:11	Perchlorate	1100000	6	ug/L	80000
02/05/2010	11:14	PH (H3=past HT not compliant)	7.8		Units	0.1
02/09/2010	14:12	Total Dissolved Solids (TDS)	8600	500	mg/L	10
		<b>201002040131</b>				
		<b><u>M-52</u></b>				
02/18/2010	17:51	Chromium Total ICAP	5.0		mg/L	0.02
02/13/2010	03:33	Perchlorate	850000	6	ug/L	40000
02/05/2010	11:18	PH (H3=past HT not compliant)	7.9		Units	0.1
02/09/2010	14:13	Total Dissolved Solids (TDS)	7200	500	mg/L	10
		<b>201002040132</b>				
		<b><u>M-50</u></b>				



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Laboratory  
Hits Report: 325249

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/18/2010	17:56	Chromium Total ICAP	41		mg/L	0.1
02/15/2010	21:38	Perchlorate	1200000	6	ug/L	80000
02/05/2010	11:32	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	14:14	Total Dissolved Solids (TDS)	19000	500	mg/L	10
		<b>201002040133</b>	<b>M-34</b>			
02/18/2010	18:01	Chromium Total ICAP	16		mg/L	0.02
02/13/2010	04:18	Perchlorate	1300000	6	ug/L	200000
02/05/2010	11:36	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	14:15	Total Dissolved Solids (TDS)	11000	500	mg/L	10
		<b>201002040134</b>	<b>M-35</b>			
02/18/2010	18:14	Chromium Total ICAP	4.7		mg/L	0.02
02/13/2010	04:40	Perchlorate	200000	6	ug/L	20000
02/05/2010	11:39	PH (H3=past HT not compliant)	8.0		Units	0.1
02/09/2010	16:37	Total Dissolved Solids (TDS)	5000	500	mg/L	10
		<b>201002040135</b>	<b>M-19</b>			
02/18/2010	18:18	Chromium Total ICAP	0.41		mg/L	0.02
02/13/2010	05:03	Perchlorate	2000	6	ug/L	200
02/05/2010	11:43	PH (H3=past HT not compliant)	7.9		Units	0.1
02/09/2010	16:38	Total Dissolved Solids (TDS)	4500	500	mg/L	10
		<b>201002040136</b>	<b>M-39</b>			
02/18/2010	18:23	Chromium Total ICAP	4.3		mg/L	0.02
02/13/2010	05:25	Perchlorate	350000	6	ug/L	20000
02/05/2010	11:47	PH (H3=past HT not compliant)	7.8		Units	0.1
02/09/2010	16:39	Total Dissolved Solids (TDS)	7200	500	mg/L	10
		<b>201002040137</b>	<b>M-68</b>			
02/18/2010	18:28	Chromium Total ICAP	1.0		mg/L	0.02
02/13/2010	05:48	Perchlorate	69000	6	ug/L	40000
02/05/2010	11:50	PH (H3=past HT not compliant)	7.8		Units	0.1
02/09/2010	16:40	Total Dissolved Solids (TDS)	5900	500	mg/L	10
		<b>201002040138</b>	<b>M-67</b>			
02/18/2010	18:33	Chromium Total ICAP	6.3		mg/L	0.02
02/13/2010	06:10	Perchlorate	400000	6	ug/L	40000
02/05/2010	11:54	PH (H3=past HT not compliant)	7.7		Units	0.1
02/09/2010	16:41	Total Dissolved Solids (TDS)	7000	500	mg/L	10



**MWH**

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Laboratory  
Hits Report: 325249

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002040139      <u>M-12A</u></b>						
02/18/2010	18:38	Chromium Total ICAP	9.3		mg/L	0.02
02/04/2010	14:40	Hexavalent chromium (Cr VI)	9.4		mg/L	0.1
02/13/2010	06:55	Perchlorate	200000	6	ug/L	20000
02/05/2010	11:57	PH (H3=past HT not compliant)	8.3		Units	0.1
02/09/2010	16:42	Total Dissolved Solids (TDS)	6600	500	mg/L	10
<b>201002040140      <u>M-11</u></b>						
02/18/2010	18:42	Chromium Total ICAP	3.0		mg/L	0.02
02/04/2010	14:35	Hexavalent chromium (Cr VI)	3.0		mg/L	0.05
02/13/2010	07:17	Perchlorate	37000	6	ug/L	4000
02/05/2010	12:00	PH (H3=past HT not compliant)	8.2		Units	0.1
02/09/2010	16:43	Total Dissolved Solids (TDS)	3100	500	mg/L	10
<b>201002040141      <u>EB-2</u></b>						
02/13/2010	07:40	Perchlorate	22	6	ug/L	8
02/05/2010	12:46	PH (H3=past HT not compliant)	5.5		Units	0.1
<b>201002040142      <u>MD-2</u></b>						
02/04/2010	13:45	Hexavalent chromium (Cr VI)	0.019		mg/L	0.005
02/15/2010	22:00	Perchlorate	1300	6	ug/L	200
02/05/2010	12:16	PH (H3=past HT not compliant)	8.0		Units	0.1
02/09/2010	16:45	Total Dissolved Solids (TDS)	1300	500	mg/L	10



# MWH LABORATORIES

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1 800 566 LABS (1 800 566 5227)

Laboratory Data  
Report: 325249

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>I-K (201002040119)</u></b>								
<b>Sampled on 02/03/2010 0737</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:13	542222 (EPA 6010)	Chromium Total ICAP	1.4	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	17:29	542059 (EPA 314.0)	Perchlorate	120000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:00	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:24	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-J (201002040120)</u></b>								
<b>Sampled on 02/03/2010 0741</b>								
<b>EPA 200.7 - ICP Metals</b>								
	02/17/2010	21:17	542383 (EPA 200.7)	Chromium Total ICAP	2.9	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	17:51	542059 (EPA 314.0)	Perchlorate	260000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:01	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:28	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>I-Z (201002040121)</u></b>								
<b>Sampled on 02/03/2010 0745</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:22	542222 (EPA 6010)	Chromium Total ICAP	10	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	18:13	542059 (EPA 314.0)	Perchlorate	470000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:02	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:31	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>I-I (201002040122)</u></b>								
<b>Sampled on 02/03/2010 0749</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:27	542222 (EPA 6010)	Chromium Total ICAP	17	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	18:36	542059 (EPA 314.0)	Perchlorate	950000	ug/L	80000	20000

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Laboratory Data  
 Report: 325249

**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
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Samples Received on:  
 02/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:03	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	11000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:45	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>I-V (201002040123)</u></b>						<b>Sampled on 02/03/2010 0754</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:32	542222 (EPA 6010)	Chromium Total ICAP	18	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	19:21	542059 (EPA 314.0)	Perchlorate	1600000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:04	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	12000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:49	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-74 (201002040124)</u></b>						<b>Sampled on 02/03/2010 0830</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:46	542222 (EPA 6010)	Chromium Total ICAP	0.93	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	19:43	542059 (EPA 314.0)	Perchlorate	74000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	13:57	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5500	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:52	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-73 (201002040125)</u></b>						<b>Sampled on 02/03/2010 0844</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/17/2010	21:51	542222 (EPA 6010)	Chromium Total ICAP	5.7	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	20:05	542059 (EPA 314.0)	Perchlorate	390000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:07	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5300	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	10:56	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-88 (201002040126)</u></b>						<b>Sampled on 02/03/2010 0907</b>		



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**Laboratory Data**  
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<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:28	542387 (EPA 6010)	Chromium Total ICAP	0.79	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	20:28	542059 (EPA 314.0)	Perchlorate	42000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:08	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:00	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-87 (201002040127)</u></b>						<b>Sampled on 02/03/2010 0856</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:33	542387 (EPA 6010)	Chromium Total ICAP	3.2	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/12/2010	20:50	542059 (EPA 314.0)	Perchlorate	340000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:09	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:03	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-100 (201002040128)</u></b>						<b>Sampled on 02/03/2010 1146</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	14:30	541058 (EPA 7196)	Hexavalent chromium (Cr VI)	0.12 (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:38	542387 (EPA 6010)	Chromium Total ICAP	0.10	mg/L	0.01	1
<b>EPA 314.0 - Perchlorate</b>								
	02/15/2010	20:53	542143 (EPA 314.0)	Perchlorate	5400	ug/L	2000	500
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:10	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:07	540774 (EPA 9040)	PH (H3=past HT not compliant)	8.1	Units	0.1	1
<b><u>M-84 (201002040129)</u></b>						<b>Sampled on 02/03/2010 1135</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	14:25	541058 (EPA 7196)	Hexavalent chromium (Cr VI)	0.0090 (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:42	542387 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.02	2

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Laboratory Data  
Report: 325249

Tronox LLC  
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<b>EPA 314.0 - Perchlorate</b>								
	02/15/2010	21:15	542143 (EPA 314.0)	Perchlorate	1100	ug/L	80	20
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:11	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1300	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:11	540774 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-31A (201002040130)</u></b>						<b>Sampled on 02/03/2010 0551</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:47	542387 (EPA 6010)	Chromium Total ICAP	11	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	03:11	542060 (EPA 314.0)	Perchlorate	1100000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:12	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:14	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-52 (201002040131)</u></b>						<b>Sampled on 02/03/2010 0612</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:51	542387 (EPA 6010)	Chromium Total ICAP	5.0	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	03:33	542060 (EPA 314.0)	Perchlorate	850000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:13	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	7200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:18	540774 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-50 (201002040132)</u></b>						<b>Sampled on 02/03/2010 0628</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:56	542387 (EPA 6010)	Chromium Total ICAP	41	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/15/2010	21:38	542143 (EPA 314.0)	Perchlorate	1200000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:14	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	19000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:32	541087 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1

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**Laboratory Data**  
**Report: 325249**

Samples Received on:  
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<b><u>M-34 (201002040133)</u></b>								<b>Sampled on 02/03/2010 0641</b>
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:01	542387 (EPA 6010)	Chromium Total ICAP	16	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	04:18	542060 (EPA 314.0)	Perchlorate	1300000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	14:15	541985 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	11000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:36	541087 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-35 (201002040134)</u></b>								<b>Sampled on 02/03/2010 0653</b>
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:14	542387 (EPA 6010)	Chromium Total ICAP	4.7	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	04:40	542060 (EPA 314.0)	Perchlorate	200000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:37	541781 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:39	541087 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-19 (201002040135)</u></b>								<b>Sampled on 02/03/2010 0706</b>
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:18	542387 (EPA 6010)	Chromium Total ICAP	0.41	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	05:03	542060 (EPA 314.0)	Perchlorate	2000	ug/L	200	50
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:38	541781 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4500	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:43	541087 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>M-39 (201002040136)</u></b>								<b>Sampled on 02/03/2010 0720</b>
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:23	542387 (EPA 6010)	Chromium Total ICAP	4.3	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	05:25	542060 (EPA 314.0)	Perchlorate	350000	ug/L	20000	5000

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<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:39 541781	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:47 541087	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-68 (201002040137)</u></b>						<b>Sampled on 02/03/2010 0732</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:28 542387	(EPA 6010)	Chromium Total ICAP	1.0	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	05:48 542060	(EPA 314.0)	Perchlorate	69000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:40 541781	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5900	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:50 541087	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-67 (201002040138)</u></b>						<b>Sampled on 02/03/2010 0814</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:33 542387	(EPA 6010)	Chromium Total ICAP	6.3	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	06:10 542060	(EPA 314.0)	Perchlorate	400000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:41 541781	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:54 541087	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-12A (201002040139)</u></b>						<b>Sampled on 02/03/2010 1116</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	14:40 541058	(EPA 7196)	Hexavalent chromium (Cr VI)	9.4 (H3)	mg/L	0.1	20
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:38 542387	(EPA 6010)	Chromium Total ICAP	9.3	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	06:55 542060	(EPA 314.0)	Perchlorate	200000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:42 541781	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	6600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	11:57 541087	(EPA 9040)	PH (H3=past HT not compliant)	8.3	Units	0.1	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>M-11 (201002040140)</u></b>								
						<b>Sampled on 02/03/2010 1105</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	14:35	541058 (EPA 7196)	Hexavalent chromium (Cr VI)	3.0 (H3)	mg/L	0.05	10
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	18:42	542387 (EPA 6010)	Chromium Total ICAP	3.0	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	07:17	542060 (EPA 314.0)	Perchlorate	37000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:43	541781 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3100	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	12:00	541087 (EPA 9040)	PH (H3=past HT not compliant)	8.2	Units	0.1	1
						<b>Sampled on 02/03/2010 0819</b>		
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	14:20	541058 (EPA 7196)	Hexavalent chromium (Cr VI)	ND (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	16:53	542387 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	07:40	542060 (EPA 314.0)	Perchlorate	22	ug/L	8	2
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:44	541781 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	12:46	541087 (EPA 9040)	PH (H3=past HT not compliant)	5.5	Units	0.1	1
						<b>Sampled on 02/03/2010 0000</b>		
<b><u>MD-2 (201002040142)</u></b>								
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/04/2010	13:45	541058 (EPA 7196)	Hexavalent chromium (Cr VI)	0.019 (H3)	mg/L	0.005	1
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	17:04	542387 (EPA 6010)	Chromium Total ICAP	ND	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/15/2010	22:00	542143 (EPA 314.0)	Perchlorate	1300	ug/L	200	50
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/9/2010	02/09/2010	16:45	541781 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1300	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/05/2010	12:16	541087 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1

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A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 325249

Tronox LLC

QC Ref # 540774 - PH (H3=past HT not compliant)

201002040119 I-K
201002040120 I-J
201002040121 I-Z
201002040122 I-I
201002040123 I-V
201002040124 M-74
201002040125 M-73
201002040126 M-88
201002040127 M-87
201002040128 M-100
201002040129 M-84
201002040130 M-31A
201002040131 M-52

Analysis Date: 02/05/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 541058 - Hexavalent Chromium by EPA 7196

201002040128 M-100
201002040129 M-84
201002040139 M-12A
201002040140 M-11
201002040141 EB-2
201002040142 MD-2

Analysis Date: 02/04/2010

Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK

QC Ref # 541087 - PH (H3=past HT not compliant)

201002040132 M-50
201002040133 M-34
201002040134 M-35
201002040135 M-19
201002040136 M-39
201002040137 M-68
201002040138 M-67
201002040139 M-12A
201002040140 M-11
201002040141 EB-2
201002040142 MD-2

Analysis Date: 02/05/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 541781 - Total Dissolved Solids (TDS)

201002040134 M-35
201002040135 M-19
201002040136 M-39
201002040137 M-68
201002040138 M-67
201002040139 M-12A
201002040140 M-11
201002040141 EB-2
201002040142 MD-2

Analysis Date: 02/09/2010

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

QC Ref # 541985 - Total Dissolved Solids (TDS)

201002040119 I-K

Analysis Date: 02/09/2010

Analyzed by: JRF



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Tronox LLC  
(continued)

201002040120	I-J	Analyzed by: JRF
201002040121	I-Z	Analyzed by: JRF
201002040122	I-I	Analyzed by: JRF
201002040123	I-V	Analyzed by: JRF
201002040124	M-74	Analyzed by: JRF
201002040125	M-73	Analyzed by: JRF
201002040126	M-88	Analyzed by: JRF
201002040127	M-87	Analyzed by: JRF
201002040128	M-100	Analyzed by: JRF
201002040129	M-84	Analyzed by: JRF
201002040130	M-31A	Analyzed by: JRF
201002040131	M-52	Analyzed by: JRF
201002040132	M-50	Analyzed by: JRF
201002040133	M-34	Analyzed by: JRF

**QC Ref # 542059 - Perchlorate**

201002040119	I-K	Analyzed by: SZZ
201002040120	I-J	Analyzed by: SZZ
201002040121	I-Z	Analyzed by: SZZ
201002040122	I-I	Analyzed by: SZZ
201002040123	I-V	Analyzed by: SZZ
201002040124	M-74	Analyzed by: SZZ
201002040125	M-73	Analyzed by: SZZ
201002040126	M-88	Analyzed by: SZZ
201002040127	M-87	Analyzed by: SZZ

**Analysis Date: 02/12/2010**

**QC Ref # 542060 - Perchlorate**

201002040130	M-31A	Analyzed by: SZZ
201002040131	M-52	Analyzed by: SZZ
201002040133	M-34	Analyzed by: SZZ
201002040134	M-35	Analyzed by: SZZ
201002040135	M-19	Analyzed by: SZZ
201002040136	M-39	Analyzed by: SZZ
201002040137	M-68	Analyzed by: SZZ
201002040138	M-67	Analyzed by: SZZ
201002040139	M-12A	Analyzed by: SZZ
201002040140	M-11	Analyzed by: SZZ
201002040141	EB-2	Analyzed by: SZZ

**Analysis Date: 02/13/2010**

**QC Ref # 542143 - Perchlorate**

201002040128	M-100	Analyzed by: XWO
201002040129	M-84	Analyzed by: XWO
201002040132	M-50	Analyzed by: XWO
201002040142	MD-2	Analyzed by: XWO

**Analysis Date: 02/15/2010**

**QC Ref # 542222 - ICP Metals**

201002040119	I-K	Analyzed by: NINA
201002040121	I-Z	Analyzed by: NINA

**Analysis Date: 02/17/2010**





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Laboratory  
QC Report: 325249

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 540774 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/05/2010</b>				
DUP1_201002040121	PH (H3=past HT not compliant)	7.8		7.82	Units		(0-20)	20	0.0
DUP2_201002040131	PH (H3=past HT not compliant)	7.9		7.86	Units		(0-20)	20	0.13
LCS1	PH (H3=past HT not compliant)		6.0	6.05	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.08	Units	101	(98-102)	20	0.17
<b>QC Ref# 541058 - Hexavalent Chromium by EPA 7196 by EPA 7196</b>					<b>Analysis Date: 02/04/2010</b>				
LCS1	Hexavalent chromium (Cr VI)		0.05	0.0540	mg/L	108	(85-115)		
LCS2	Hexavalent chromium (Cr VI)		0.05	0.0550	mg/L	110	(85-115)		
MBLK	Hexavalent chromium (Cr VI)			<0.005	mg/L				
MRL_CHK	Hexavalent chromium (Cr VI)		0.005	0.00400	mg/L	80	(50-150)		
MS_201002040142	Hexavalent chromium (Cr VI)	0.019	0.05	0.0760	mg/L	114	(70-130)		
MSD_201002040142	Hexavalent chromium (Cr VI)	0.019	0.05	0.0770	mg/L	116	(70-130)	20	1.7
<b>QC Ref# 541087 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/05/2010</b>				
DUP_201002040141	PH (H3=past HT not compliant)	5.5		5.57	Units		(0-20)	20	0.90
DUP2_201002040142	PH (H3=past HT not compliant)	8.0		8.06	Units		(0-20)	20	0.62
LCS1	PH (H3=past HT not compliant)		6.0	6.08	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.07	Units	101	(98-102)	20	0.17
<b>QC Ref# 541781 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 02/09/2010</b>				
DUP_201002030056	Total Dissolved Solid (TDS)	650		642	mg/L		(0-10)	10	1.2
DUP_201002030075	Total Dissolved Solid (TDS)	630		628	mg/L		(0-10)	10	0.95
LCS1	Total Dissolved Solid (TDS)		175	168	mg/L	96	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	700	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		
<b>QC Ref# 541985 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 02/09/2010</b>				
DUP_201002040016	Total Dissolved Solid (TDS)	320		316	mg/L		(0-10)	10	0.0
DUP_201002040029	Total Dissolved Solid (TDS)	390		380	mg/L		(0-10)	10	3.6
LCS1	Total Dissolved Solid (TDS)		175	160	mg/L	91	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	658	mg/L	94	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		
<b>QC Ref# 542059 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/12/2010</b>				
LCS1	Perchlorate		25	24.8	ug/L	99	(85-115)		
LCS2	Perchlorate		25	24.9	ug/L	100	(85-115)	15	0.40
MBLK	Perchlorate			<4	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

26/28

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)





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Laboratory  
QC Report: 325249

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Perchlorate		4.0	3.59	ug/L	90	(75-125)		
MRLCW	Perchlorate		2.0	1.57	ug/L	79	(50-150)		
MS_201002080087	Perchlorate	4.3	25	29.2	ug/L	99	(80-120)		
MSD_201002080087	Perchlorate	4.3	25	28.6	ug/L	97	(80-120)	15	2.0
<b>QC Ref# 542060 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/13/2010</b>				
LCS1	Perchlorate		25	24.3	ug/L	97	(85-115)		
LCS2	Perchlorate		25	25.1	ug/L	100	(85-115)	15	3.2
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.7	ug/L	93	(75-125)		
MRLCW	Perchlorate		2.0	1.99	ug/L	99	(50-150)		
MS_201002080088	Perchlorate	ND	25	23.4	ug/L	94	(80-120)		
MSD_201002080088	Perchlorate	ND	25	24.0	ug/L	96	(80-120)	15	2.3
<b>QC Ref# 542143 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/15/2010</b>				
LCS1	Perchlorate		25	24.9	ug/L	100	(85-115)		
LCS2	Perchlorate		25	24.4	ug/L	98	(85-115)	15	2.0
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.7	ug/L	92	(75-125)		
MRLCW	Perchlorate		2.0	1.77	ug/L	88	(50-150)		
MS_201002090378	Perchlorate	ND	25	24.2	ug/L	97	(80-120)		
MSD_201002090378	Perchlorate	ND	25	23.9	ug/L	96	(80-120)	15	0.94
<b>QC Ref# 542222 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/17/2010</b>				
LCS1	Chromium Total ICAP		1.0	0.982	mg/L	98	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.988	mg/L	99	(85-115)	20	0.61
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0103	mg/L	103	(50-150)		
MS_201002030364	Chromium Total ICAP	0.023	0.5	1.04	mg/L	102	(70-130)		
MS2_201002030365	Chromium Total ICAP	ND	0.5	1.04	mg/L	104	(70-130)		
MSD_201002030364	Chromium Total ICAP	0.023	0.5	0.870	mg/L	85	(70-130)	20	19
MSD2_201002030365	Chromium Total ICAP	ND	0.5	1.02	mg/L	102	(70-130)	20	1.9
<b>QC Ref# 542383 - ICP Metals by EPA 200.7</b>					<b>Analysis Date: 02/17/2010</b>				
LCS1	Chromium Total ICAP		1.0	0.982	mg/L	98	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.988	mg/L	99	(85-115)	20	0.61
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0103	mg/L	103	(50-150)		
MS_201002170301	Chromium Total ICAP	0.023	0.5	1.04	mg/L	102	(70-130)		

Spike recovery is already corrected for native results.  
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.  
 (S) Indicates surrogate compound.  
 (I) Indicates internal standard compound.  
 RPD not calculated for LCS2 when different a concentration than LCS1 is used  
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 325249

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201002170301	Chromium Total ICAP	0.023	0.5	0.870	mg/L	85	(70-130)	20	19
<b>QC Ref# 542387 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/18/2010</b>				
LCS1	Chromium Total ICAP		1.0	1.01	mg/L	101	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.990	mg/L	99	(85-115)	20	2.0
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.00978	mg/L	98	(50-150)		
MS_201002040141	Chromium Total ICAP	ND	0.5	1.00	mg/L	100	(70-130)		
MS2_201002040142	Chromium Total ICAP	ND	0.5	1.00	mg/L	99	(70-130)		
MSD_201002040141	Chromium Total ICAP	ND	0.5	1.01	mg/L	101	(70-130)	20	1
MSD2_201002040142	Chromium Total ICAP	ND	0.5	1.00	mg/L	99	(70-130)	20	0.10

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

28/28

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



**MWH**

**LABORATORIES**

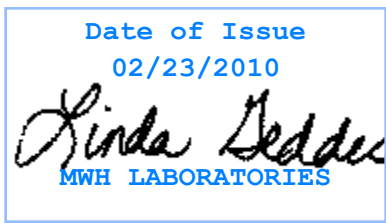
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**Laboratory Report**

for

Tronox LLC  
PO Box 55  
Henderson, NV 89009  
Attention: Susan Crowley  
Fax: 702-651-2310



LXG: Linda Geddes  
Project Manager



Report#: 325390  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325390  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 05, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002050165	M-70	04-Feb-2010 0631
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050167	M-71	04-Feb-2010 0643
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050168	M-72	04-Feb-2010 0650
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050169	M-22A	04-Feb-2010 0703
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050170	M-38	04-Feb-2010 0725
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050171	M-89	04-Feb-2010 0741
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050172	M-17A	04-Feb-2010 0758
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050173	M-76	04-Feb-2010 0815
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050174	M-75	04-Feb-2010 0832
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)

**Acknowledgement of Samples Received**
**Tronox LLC**

 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

 Customer Code: TRONOX  
 Group #: 325390  
 Project #: CWA-RCRA  
 Sample Group: Quarterly CR6010 Testing  
 Project Manager: Linda Geddes  
 Phone: (626) 386-1163

The following samples were received from you on **February 05, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201002050175	M-115	04-Feb-2010 0908
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050176	M-14A	04-Feb-2010 0921
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050177	M-36	04-Feb-2010 0947
	Chromium Total ICAP RCRA	CRVI7196
	PH (H3=past HT not compliant)	Total Dissolved Solid (TDS)
201002050178	M-92	04-Feb-2010 0538
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050179	M-97	04-Feb-2010 0552
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050180	I-U	04-Feb-2010 0510
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)
201002050184	I-G	04-Feb-2010 0505
	Chromium Total ICAP RCRA	Perchlorate
	Total Dissolved Solid (TDS)	PH (H3=past HT not compliant)

**Test Description**





750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629  
(626) 386-1100 (800) 566-5227

MVLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB: 4c

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **TRONOX**  
 PROJECT JOB # / P.O.#: **CWA-RCRA**  
 Sampler Signature: *Thomas McDaniel*  
 Susan Crowley (702) 651-2234  
 Thomas McDaniel  
 Tronox LLC - Henderson Plant  
 PO Box 55  
 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX #	GRAB	COMP	CLQ	TS	TE	CR	CRY	SAMPLER COMMENTS
947	2-4-10		M-36	RGW	X		X	X	X	X	X	5 BOTTLES
538	2-4-10		M-92	RGW	X		X	X	X	X		4 BOTTLES
552	2-4-10		M-97	RGW	X		X	X	X	X		4 BOTTLES
510	2-4-10		F-U	RGW	X		X	X	X	X		4 BOTTLES
505	2-4-10		F-G	RGW	X		X	X	X	X		4 BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES
				RGW	X		X	X	X	X		BOTTLES

\* MATRIX TYPES:  
 CFW = Chlor(am)inated Finished Water  
 FW = Other Finished Water

Reported by Volume:  
 RGW = Raw Ground Water  
 RSW = Raw Surface Water

Reported by Weight:  
 SO = Soil  
 SL = Sludge  
 CW = Chlorinated Waste Water  
 WW = Other Waste Water  
 SW = Storm Water

RELINQUISHED BY: *Thomas McDaniel*  
 RECEIVED BY: *Anna Oropoza*  
 RELINQUISHED BY:  
 RECEIVED BY:

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<i>Thomas McDaniel</i>	Thomas McDaniel	Veolia Water NA for Tronox LLC - Henderson Plant	2-4-10	12:00 PM
<i>Anna Oropoza</i>	Anna Oropoza	MWH	2-5-10	12:31

Group#
Date Sampled
Date Received

Linda Geddes Your MWHL Project Manager

Client Code TRONOX  
 Project Code CWA-RCRA Bottle Orders  
 Group Name CR6010 Quarterly  
 PO# / Job# \_\_\_\_\_

**Sampler: please return  
 this paper with your samples**

BO #: 11184  
 Created By: LYG  
 Order Date: 11/12/2009

Bottle Orders

Ship By:
11/27/2009

**Ship Sample Kits to**

Veolia Water-Tronox LLC  
 Gate 1  
 560 West Lake Mead Pkwy  
 Henderson, NV 89015  
 Attn: Wendy Prescott  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**Send Report to**

Tronox LLC  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

**Billing Address**

Tronox LLC  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234  
 Fax: 702-651-2310

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
100	Chromium Total ICAP RCRA		1 250ml acid rinsed 1ml HNO3 (18%)	
15	CRVI 7196		1 125ml poly acid rinsed no preservative	
100	Perchlorate		1 125ml poly CLO4 - no preservative	
100	PH by EPA 9040		1 125ml poly no preservative	
100	Total Dissolved Solid (TDS)		1 500ml poly TDS - no preservative	

Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht



February 23, 2010

Ms. Susan Crowley  
Tronox  
PO Box 55  
Henderson, NV 89009

Subject: Case Narrative report 325390

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 05, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

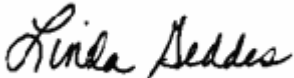
Case Narrative:  
For the MWH Laboratories data the following issues were observed:

(Hexavalent Chromium) Sample M-36 was received and analyzed after the 24 hour holding time had been exceeded. Data was flagged H3.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Linda Geddes  
Project Manager



**MWH**

**LABORATORIES**

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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

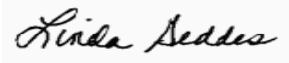
**Laboratory Comments  
Report: #325390**

Tronox LLC  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

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**Client specific Comments**

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:  \_\_\_\_\_

**Group Comments**

(Hexavalent Chromium) Sample M-36 was received and analyzed after the 24 hour holding time had been exceeded. Data was flagged H3.

**Flags Legend:**

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



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Laboratory  
Hits Report: 325390

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201002050165      <u>M-70</u></b>						
02/18/2010	19:24 Chromium Total ICAP		0.21		mg/L	0.02
02/15/2010	22:22 Perchlorate		20000	6	ug/L	4000
02/08/2010	11:18 PH (H3=past HT not compliant)		8.2		Units	0.1
02/10/2010	19:04 Total Dissolved Solids (TDS)		1700	500	mg/L	10
<b>201002050167      <u>M-71</u></b>						
02/18/2010	19:37 Chromium Total ICAP		3.9		mg/L	0.02
02/13/2010	10:16 Perchlorate		470000	6	ug/L	40000
02/08/2010	11:21 PH (H3=past HT not compliant)		8.0		Units	0.1
02/10/2010	19:07 Total Dissolved Solids (TDS)		6200	500	mg/L	10
<b>201002050168      <u>M-72</u></b>						
02/18/2010	20:02 Chromium Total ICAP		4.6		mg/L	0.02
02/16/2010	18:55 Perchlorate		240000	6	ug/L	20000
02/08/2010	11:25 PH (H3=past HT not compliant)		7.8		Units	0.1
02/10/2010	19:08 Total Dissolved Solids (TDS)		8600	500	mg/L	10
<b>201002050169      <u>M-22A</u></b>						
02/18/2010	20:07 Chromium Total ICAP		27		mg/L	0.1
02/17/2010	11:20 Perchlorate		1500000	6	ug/L	400000
02/08/2010	11:29 PH (H3=past HT not compliant)		7.8		Units	0.1
02/10/2010	19:09 Total Dissolved Solids (TDS)		15000	500	mg/L	10
<b>201002050170      <u>M-38</u></b>						
02/18/2010	20:12 Chromium Total ICAP		25		mg/L	0.1
02/16/2010	19:40 Perchlorate		970000	6	ug/L	80000
02/09/2010	10:16 PH (H3=past HT not compliant)		7.5		Units	0.1
02/10/2010	19:10 Total Dissolved Solids (TDS)		14000	500	mg/L	10
<b>201002050171      <u>M-89</u></b>						
02/18/2010	20:17 Chromium Total ICAP		24		mg/L	0.1
02/17/2010	16:12 Perchlorate		870000	6	ug/L	40000
02/09/2010	10:19 PH (H3=past HT not compliant)		7.7		Units	0.1
02/10/2010	19:11 Total Dissolved Solids (TDS)		13000	500	mg/L	10
<b>201002050172      <u>M-17A</u></b>						
02/18/2010	20:21 Chromium Total ICAP		25		mg/L	0.1
02/13/2010	09:32 Perchlorate		880000	6	ug/L	80000
02/09/2010	10:23 PH (H3=past HT not compliant)		7.8		Units	0.1

9/20

### SUMMARY OF POSITIVE DATA ONLY



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Laboratory  
Hits Report: 325390

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/10/2010 19:12	Total Dissolved Solids (TDS)		13000	500	mg/L	10
	<b>201002050173</b>	<b><u>M-76</u></b>				
02/18/2010 20:26	Chromium Total ICAP		2.5		mg/L	0.02
02/16/2010 02:06	Perchlorate		120000	6	ug/L	8000
02/09/2010 10:26	PH (H3=past HT not compliant)		8.0		Units	0.1
02/10/2010 19:13	Total Dissolved Solids (TDS)		4400	500	mg/L	10
	<b>201002050174</b>	<b><u>M-75</u></b>				
02/18/2010 20:31	Chromium Total ICAP		3.4		mg/L	0.02
02/16/2010 02:29	Perchlorate		67000	6	ug/L	4000
02/09/2010 10:29	PH (H3=past HT not compliant)		8.2		Units	0.1
02/10/2010 19:14	Total Dissolved Solids (TDS)		4300	500	mg/L	10
	<b>201002050175</b>	<b><u>M-115</u></b>				
02/18/2010 20:36	Chromium Total ICAP		0.13		mg/L	0.02
02/16/2010 02:51	Perchlorate		14000	6	ug/L	4000
02/09/2010 10:33	PH (H3=past HT not compliant)		8.0		Units	0.1
02/10/2010 19:15	Total Dissolved Solids (TDS)		2600	500	mg/L	10
	<b>201002050176</b>	<b><u>M-14A</u></b>				
02/18/2010 20:40	Chromium Total ICAP		0.056		mg/L	0.02
02/16/2010 03:13	Perchlorate		24000	6	ug/L	4000
02/09/2010 10:37	PH (H3=past HT not compliant)		8.0		Units	0.1
02/10/2010 19:17	Total Dissolved Solids (TDS)		3200	500	mg/L	10
	<b>201002050177</b>	<b><u>M-36</u></b>				
02/18/2010 20:56	Chromium Total ICAP		31		mg/L	0.1
02/05/2010 18:40	Hexavalent chromium (Cr VI)		33		mg/L	0.5
02/16/2010 03:36	Perchlorate		1400000	6	ug/L	80000
02/09/2010 10:40	PH (H3=past HT not compliant)		7.7		Units	0.1
02/10/2010 19:18	Total Dissolved Solids (TDS)		15000	500	mg/L	10
	<b>201002050178</b>	<b><u>M-92</u></b>				
02/18/2010 21:01	Chromium Total ICAP		0.021		mg/L	0.02
02/16/2010 18:33	Perchlorate		870	6	ug/L	80
02/09/2010 10:44	PH (H3=past HT not compliant)		8.0		Units	0.1
02/10/2010 19:19	Total Dissolved Solids (TDS)		2000	500	mg/L	10
	<b>201002050179</b>	<b><u>M-97</u></b>				



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Laboratory  
Hits Report: 325390

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/18/2010	21:05	Chromium Total ICAP	0.049		mg/L	0.02
02/16/2010	13:19	Perchlorate	69000	6	ug/L	4000
02/09/2010	10:47	PH (H3=past HT not compliant)	7.9		Units	0.1
02/10/2010	19:20	Total Dissolved Solids (TDS)	3600	500	mg/L	10
		<b>201002050180</b>	<b><u>I-U</u></b>			
02/18/2010	21:10	Chromium Total ICAP	16		mg/L	0.1
02/16/2010	04:43	Perchlorate	900000	6	ug/L	200000
02/09/2010	17:27	PH (H3=past HT not compliant)	7.6		Units	0.1
02/10/2010	19:21	Total Dissolved Solids (TDS)	15000	500	mg/L	10
		<b>201002050184</b>	<b><u>I-G</u></b>			
02/18/2010	21:15	Chromium Total ICAP	29		mg/L	0.1
02/16/2010	05:05	Perchlorate	1700000	6	ug/L	80000
02/09/2010	17:30	PH (H3=past HT not compliant)	7.5		Units	0.1
02/10/2010	19:22	Total Dissolved Solids (TDS)	17000	500	mg/L	10



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**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

**Laboratory Data**  
**Report: 325390**

Samples Received on:  
 02/05/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>M-70 (201002050165)</u></b>								<b>Sampled on 02/04/2010 0631</b>
<b>EPA 6010 - ICP Metals</b>								
02/18/2010	19:24	542390	(EPA 6010)	Chromium Total ICAP	0.21	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
02/15/2010	22:22	542143	(EPA 314.0)	Perchlorate	20000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:04	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1700	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
02/08/2010	11:18	541188	(EPA 9040)	PH (H3=past HT not compliant)	8.2	Units	0.1	1
<b><u>M-71 (201002050167)</u></b>								<b>Sampled on 02/04/2010 0643</b>
<b>EPA 6010 - ICP Metals</b>								
02/18/2010	19:37	542390	(EPA 6010)	Chromium Total ICAP	3.9	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
02/13/2010	10:16	542060	(EPA 314.0)	Perchlorate	470000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:07	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	6200	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
02/08/2010	11:21	541188	(EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-72 (201002050168)</u></b>								<b>Sampled on 02/04/2010 0650</b>
<b>EPA 6010 - ICP Metals</b>								
02/18/2010	20:02	542390	(EPA 6010)	Chromium Total ICAP	4.6	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
02/16/2010	18:55	542280	(EPA 314.0)	Perchlorate	240000	ug/L	20000	5000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:08	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	8600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
02/08/2010	11:25	541188	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-22A (201002050169)</u></b>								<b>Sampled on 02/04/2010 0703</b>
<b>EPA 6010 - ICP Metals</b>								
02/18/2010	20:07	542390	(EPA 6010)	Chromium Total ICAP	27	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
02/17/2010	11:20	542533	(EPA 314.0)	Perchlorate	1500000	ug/L	400000	100000

Rounding on totals after summation.  
 (c) - indicates calculated results



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Laboratory Data  
Report: 325390

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:09 542257	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/08/2010	11:29 541188	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-38 (201002050170)</u></b>						<b>Sampled on 02/04/2010 0725</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:12 542390	(EPA 6010)	Chromium Total ICAP	25	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	19:40 542280	(EPA 314.0)	Perchlorate	970000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:10 542257	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	14000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:16 541223	(EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
<b><u>M-89 (201002050171)</u></b>						<b>Sampled on 02/04/2010 0741</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:17 542390	(EPA 6010)	Chromium Total ICAP	24	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/17/2010	16:12 542533	(EPA 314.0)	Perchlorate	870000	ug/L	40000	10000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:11 542257	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	13000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:19 541223	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-17A (201002050172)</u></b>						<b>Sampled on 02/04/2010 0758</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:21 542390	(EPA 6010)	Chromium Total ICAP	25	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/13/2010	09:32 542060	(EPA 314.0)	Perchlorate	880000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:12 542257	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	13000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:23 541223	(EPA 9040)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
<b><u>M-76 (201002050173)</u></b>						<b>Sampled on 02/04/2010 0815</b>		

Rounding on totals after summation.  
(c) - indicates calculated results



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Laboratory Data  
 Report: 325390

**Tronox LLC**  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received on:  
 02/05/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:26	542390 (EPA 6010)	Chromium Total ICAP	2.5	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	02:06	542143 (EPA 314.0)	Perchlorate	120000	ug/L	8000	2000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:13	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4400	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:26	541223 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-75 (201002050174)</u></b>					<b>Sampled on 02/04/2010 0832</b>			
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:31	542390 (EPA 6010)	Chromium Total ICAP	3.4	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	02:29	542143 (EPA 314.0)	Perchlorate	67000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:14	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4300	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:29	541223 (EPA 9040)	PH (H3=past HT not compliant)	8.2	Units	0.1	1
<b><u>M-115 (201002050175)</u></b>					<b>Sampled on 02/04/2010 0908</b>			
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:36	542390 (EPA 6010)	Chromium Total ICAP	0.13	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	02:51	542143 (EPA 314.0)	Perchlorate	14000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:15	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:33	541223 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-14A (201002050176)</u></b>					<b>Sampled on 02/04/2010 0921</b>			
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:40	542390 (EPA 6010)	Chromium Total ICAP	0.056	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	03:13	542143 (EPA 314.0)	Perchlorate	24000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:17	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3200	mg/L	10	1

Rounding on totals after summation.  
 (c) - indicates calculated results





# MWH

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1 800 566 LABS (1 800 566 5227)

Laboratory Data  
Report: 325390

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:37	541223 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-36 (201002050177)</u></b>								
<b>Sampled on 02/04/2010 0947</b>								
<b>EPA 7196 - Hexavalent Chromium by EPA 7196</b>								
	02/05/2010	18:40	541090 (EPA 7196)	Hexavalent chromium (Cr VI)	33 (H3)	mg/L	0.5	100
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	20:56	542390 (EPA 6010)	Chromium Total ICAP	31	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	03:36	542143 (EPA 314.0)	Perchlorate	1400000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:18	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:40	541223 (EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
<b><u>M-92 (201002050178)</u></b>								
<b>Sampled on 02/04/2010 0538</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	21:01	542390 (EPA 6010)	Chromium Total ICAP	0.021	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	18:33	542280 (EPA 314.0)	Perchlorate	870	ug/L	80	20
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:19	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:44	541223 (EPA 9040)	PH (H3=past HT not compliant)	8.0	Units	0.1	1
<b><u>M-97 (201002050179)</u></b>								
<b>Sampled on 02/04/2010 0552</b>								
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	21:05	542390 (EPA 6010)	Chromium Total ICAP	0.049	mg/L	0.02	2
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	13:19	542280 (EPA 314.0)	Perchlorate	69000	ug/L	4000	1000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:20	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3600	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	10:47	541223 (EPA 9040)	PH (H3=past HT not compliant)	7.9	Units	0.1	1
<b><u>I-U (201002050180)</u></b>								
<b>Sampled on 02/04/2010 0510</b>								



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**Laboratory Data**  
**Report: 325390**

**Tronox LLC**  
Susan Crowley  
PO Box 55  
Henderson, NV 89009

Samples Received on:  
02/05/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	21:10	542390 (EPA 6010)	Chromium Total ICAP	16	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	04:43	542143 (EPA 314.0)	Perchlorate	900000	ug/L	200000	50000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:21	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	17:27	541390 (EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
<b><u>I-G (201002050184)</u></b>						<b>Sampled on 02/04/2010 0505</b>		
<b>EPA 6010 - ICP Metals</b>								
	02/18/2010	21:15	542390 (EPA 6010)	Chromium Total ICAP	29	mg/L	0.1	10
<b>EPA 314.0 - Perchlorate</b>								
	02/16/2010	05:05	542143 (EPA 314.0)	Perchlorate	1700000	ug/L	80000	20000
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
2/10/2010	02/10/2010	19:22	542257 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	17000	mg/L	10	1
<b>EPA 9040 - PH (H3=past HT not compliant)</b>								
	02/09/2010	17:30	541390 (EPA 9040)	PH (H3=past HT not compliant)	7.5	Units	0.1	1



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Tronox LLC

QC Ref # 541090 - Hexavalent Chromium by EPA 7196

201002050177 M-36

Analysis Date: 02/05/2010

Analyzed by: CSK

QC Ref # 541188 - PH (H3=past HT not compliant)

201002050165 M-70
201002050167 M-71
201002050168 M-72
201002050169 M-22A

Analysis Date: 02/08/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 541223 - PH (H3=past HT not compliant)

201002050170 M-38
201002050171 M-89
201002050172 M-17A
201002050173 M-76
201002050174 M-75
201002050175 M-115
201002050176 M-14A
201002050177 M-36
201002050178 M-92
201002050179 M-97

Analysis Date: 02/09/2010

Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM
Analyzed by: NEM

QC Ref # 541390 - PH (H3=past HT not compliant)

201002050180 I-U
201002050184 I-G

Analysis Date: 02/09/2010

Analyzed by: NEM
Analyzed by: NEM

QC Ref # 542060 - Perchlorate

201002050167 M-71
201002050172 M-17A

Analysis Date: 02/13/2010

Analyzed by: SZZ
Analyzed by: SZZ

QC Ref # 542143 - Perchlorate

201002050165 M-70
201002050173 M-76
201002050174 M-75
201002050175 M-115
201002050176 M-14A
201002050177 M-36
201002050180 I-U
201002050184 I-G

Analysis Date: 02/15/2010

Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO
Analyzed by: XWO

QC Ref # 542257 - Total Dissolved Solids (TDS)

201002050165 M-70
201002050167 M-71
201002050168 M-72
201002050169 M-22A
201002050170 M-38
201002050171 M-89
201002050172 M-17A
201002050173 M-76
201002050174 M-75

Analysis Date: 02/10/2010

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF



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**Laboratory  
QC Summary: 325390**

Tronox LLC

(continued)

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201002050175	M-115	Analyzed by: JRF
201002050176	M-14A	Analyzed by: JRF
201002050177	M-36	Analyzed by: JRF
201002050178	M-92	Analyzed by: JRF
201002050179	M-97	Analyzed by: JRF
201002050180	I-U	Analyzed by: JRF
201002050184	I-G	Analyzed by: JRF

**QC Ref # 542280 - Perchlorate**

201002050168	M-72	Analyzed by: SZZ
201002050170	M-38	Analyzed by: SZZ
201002050178	M-92	Analyzed by: SZZ
201002050179	M-97	Analyzed by: SZZ

**Analysis Date: 02/16/2010**

**QC Ref # 542390 - ICP Metals**

201002050165	M-70	Analyzed by: NINA
201002050167	M-71	Analyzed by: NINA
201002050168	M-72	Analyzed by: NINA
201002050169	M-22A	Analyzed by: NINA
201002050170	M-38	Analyzed by: NINA
201002050171	M-89	Analyzed by: NINA
201002050172	M-17A	Analyzed by: NINA
201002050173	M-76	Analyzed by: NINA
201002050174	M-75	Analyzed by: NINA
201002050175	M-115	Analyzed by: NINA
201002050176	M-14A	Analyzed by: NINA
201002050177	M-36	Analyzed by: NINA
201002050178	M-92	Analyzed by: NINA
201002050179	M-97	Analyzed by: NINA
201002050180	I-U	Analyzed by: NINA
201002050184	I-G	Analyzed by: NINA

**Analysis Date: 02/18/2010**

**QC Ref # 542533 - Perchlorate**

201002050169	M-22A	Analyzed by: XWO
201002050171	M-89	Analyzed by: XWO

**Analysis Date: 02/17/2010**



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Laboratory  
QC Report: 325390

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 541090 - Hexavalent Chromium by EPA 7196 by EPA 7196</b>					<b>Analysis Date: 02/05/2010</b>				
LCS1	Hexavalent chromium (Cr VI)		0.05	0.0520	mg/L	104	(85-115)		
LCS2	Hexavalent chromium (Cr VI)		0.05	0.0540	mg/L	108	(85-115)		
MBLK	Hexavalent chromium (Cr VI)			<0.005	mg/L				
MRL_CHK	Hexavalent chromium (Cr VI)		0.005	0.00300	mg/L	60	(50-150)		
MS_201002080014	Hexavalent chromium (Cr VI)	1.9	0.05	3.01	mg/L	107	(70-130)		
MSD_201002080014	Hexavalent chromium (Cr VI)	1.9	0.05	3.05	mg/L	111	(70-130)	20	3.7
<b>QC Ref# 541188 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/08/2010</b>				
DUP1_201002050169	PH (H3=past HT not compliant)	7.8		7.84	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.08	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.03	Units	101	(98-102)	20	0.83
<b>QC Ref# 541223 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/09/2010</b>				
DUP1_201002050179	PH (H3=past HT not compliant)	7.9		7.92	Units		(0-20)	20	0.13
LCS1	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.06	Units	101	(98-102)	20	0.66
<b>QC Ref# 541390 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 02/09/2010</b>				
DUP1_201002050184	PH (H3=past HT not compliant)	7.5		7.51	Units		(0-20)	20	0.40
LCS1	PH (H3=past HT not compliant)		6.0	6.06	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.05	Units	101	(98-102)	20	0.17
<b>QC Ref# 542060 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/13/2010</b>				
LCS1	Perchlorate		25	24.3	ug/L	97	(85-115)		
LCS2	Perchlorate		25	25.1	ug/L	100	(85-115)	15	3.2
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.7	ug/L	93	(75-125)		
MRLLW	Perchlorate		2.0	1.99	ug/L	99	(50-150)		
MS_201002080088	Perchlorate	ND	25	23.4	ug/L	94	(80-120)		
MSD_201002080088	Perchlorate	ND	25	24.0	ug/L	96	(80-120)	15	2.3
<b>QC Ref# 542143 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/15/2010</b>				
LCS1	Perchlorate		25	24.9	ug/L	100	(85-115)		
LCS2	Perchlorate		25	24.4	ug/L	98	(85-115)	15	2.0
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.7	ug/L	92	(75-125)		
MRLLW	Perchlorate		2.0	1.77	ug/L	88	(50-150)		
MS_201002090378	Perchlorate	ND	25	24.2	ug/L	97	(80-120)		
MSD_201002090378	Perchlorate	ND	25	23.9	ug/L	96	(80-120)	15	0.94

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

19/20

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 325390

Tronox LLC  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 542257 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 02/10/2010</b>				
DUP_201002050165	Total Dissolved Solid (TDS)	1700		1680	mg/L		(0-10)	10	1.1
DUP_201002050175	Total Dissolved Solid (TDS)	2600		2610	mg/L		(0-10)	10	0.38
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	700	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	13.0	mg/L	130	(50-150)		
<b>QC Ref# 542280 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/16/2010</b>				
LCS1	Perchlorate		25	24.8	ug/L	99	(85-115)		
LCS2	Perchlorate		25	24.7	ug/L	99	(85-115)	15	0.40
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.59	ug/L	90	(75-125)		
MRLLW	Perchlorate		2.0	1.56	ug/L	78	(50-150)		
MS_201002080209	Perchlorate	ND	25	24.2	ug/L	97	(80-120)		
MSD_201002080209	Perchlorate	ND	25	23.9	ug/L	96	(80-120)	15	1.3
<b>QC Ref# 542390 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 02/18/2010</b>				
LCS1	Chromium Total ICAP		1.0	0.958	mg/L	96	(85-115)		
LCS2	Chromium Total ICAP		1.0	0.977	mg/L	98	(85-115)	20	2.0
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.00970	mg/L	97	(50-150)		
MS_201002050165	Chromium Total ICAP	0.21	0.5	1.16	mg/L	95	(70-130)		
MS2_201002050167	Chromium Total ICAP	3.9	0.5	4.85	mg/L	90	(70-130)		
MSD_201002050165	Chromium Total ICAP	0.21	0.5	1.17	mg/L	96	(70-130)	20	1.7
MSD2_201002050167	Chromium Total ICAP	3.9	0.5	4.94	mg/L	99	(70-130)	20	9.3
<b>QC Ref# 542533 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 02/17/2010</b>				
LCS1	Perchlorate		25	24.1	ug/L	97	(85-115)		
LCS2	Perchlorate		25	24.5	ug/L	98	(85-115)	15	1.6
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.75	ug/L	94	(75-125)		
MRLLW	Perchlorate		2.0	1.92	ug/L	96	(50-150)		
MS_201002100551	Perchlorate	ND	25	22.8	ug/L	91	(80-120)		
MSD_201002100551	Perchlorate	ND	25	23.1	ug/L	93	(80-120)	15	1.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

20/20

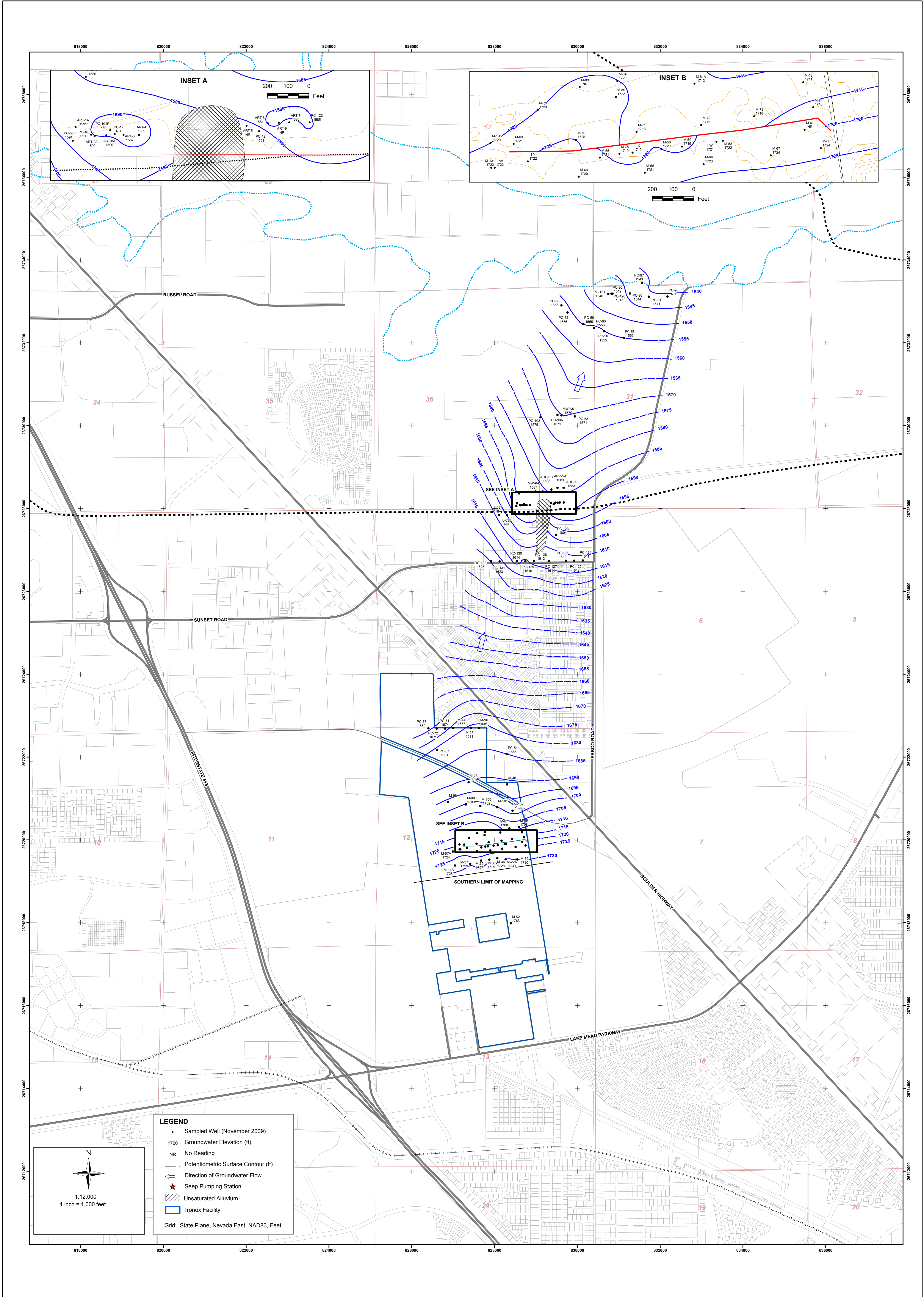
(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

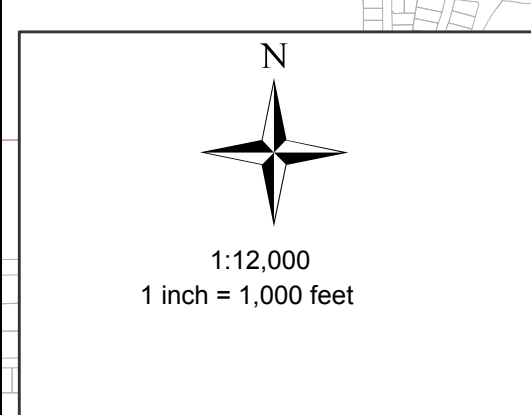
## ATTACHMENT 4

Potentiometric Surface Map



**LEGEND**

- Sampled Well (November 2009)
- 1700 Groundwater Elevation (ft)
- NR No Reading
- - - Potentiometric Surface Contour (ft)
- Direction of Groundwater Flow
- ★ Seep Pumping Station
- ▨ Unsaturated Alluvium
- ▭ Tronox Facility
- Grid: State Plane, Nevada East, NAD83, Feet



SHEET NUMBER  
1

PLATE NUMBER  
2

**POTENTIOMETRIC SURFACE MAP  
QUATERNARY ALLUVIUM AQUIFER  
FIRST QUARTER 2010**  
UIC Permit #UNEV94218 Report  
Tronox Facility  
Henderson, Nevada

SCALE: 1:12,000      DATE: 03/30/10      PROJECT NUMBER: 2027

DESIGNED BY:	REVISIONS		
E. Krish	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
OS			
CHECKED BY:			
JO			
APPROVED BY:			
NGEM			

**northgate**  
environmental management, inc.

**TRONOX**

<http://www.ngem.com>