



Fredrick R. Stater  
Plant Manager

(702) 651-2235  
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Rick.Stater@tronox.com

January 24, 2010

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

SUBJECT: Fourth Quarter and Annual 2010 DMR – Permit # NEV2001516

Tronox LLC (Tronox) maintains a Permit # NEV2001516 covering synthetically lined pond operation in Henderson, Nevada. While there was no discharge to receiving waters from the covered ponds, the attached Discharge Monitoring Reports, DMR's, (Attachment 1) and accompanying tables provide operational information.

In the first and second quarters of 2009, several minor leaks were discovered in the top (primary) liner of the WC-E pond. Liner repairs were completed in the fourth quarter and the pond was put back in service. On February 16<sup>th</sup>, 2010, the WC-E pond leak detection system discovered a new leak in the top pond liner, as the pond level was increased. This leak has been evaluated and the pond level was lowered below the suspected leak area. Liner repairs commenced in November and were completed in the first week of December 2010. The pond has since been put back into normal service. Currently, the leak detection system is being closely monitored for any further signs of leak activity as the pond level rises.

Should you have any questions regarding this report, please contact Mike Skromyda at (702) 651-2228 or [michael.skromyda@tronox.com](mailto:michael.skromyda@tronox.com). Thank you.

Sincerely,



Fredrick R. Stater  
Plant Manager

Overnight Mail

cc: Mike Skromyda  
John Hatmaker

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

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

## **ATTACHMENT 1**

### **Discharge Monitoring Reports**

**October 2010**

**November 2010**

**December 2010**

PERMITTEE NAME/ADDRESS: Tronox LLC  
 NAME: Tronox LLC  
 ADDRESS: PO BOX 55  
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**  
 NEV2001516  
 PERMIT NUMBER

001  
 DISCHARGE NUMBER

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 Attn: Fredrick R. Stater

MONITORING PERIOD  
 FROM 10 | 10 | 01 TO 10 | 10 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)			
Flow Influent	SAMPLE MEASUREMENT	Please see attached Table 1			MGD	-----	-----	0	Monthly	Flow Meter
	PERMIT REQUIREMENT	Monitor and Report				-----	-----			
Leak Detection Information	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 2			0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT	-----				Monitor and Report				
Pond Water Level	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT	-----				Monitor and Report				
Storage Volume	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Bi-Monthly	Calculation
	PERMIT REQUIREMENT	-----				Monitor and Report				
Water Balance Information	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Monthly	Calculation
	PERMIT REQUIREMENT	-----				Monitor and Report				
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT	-----								
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER								TELEPHONE		DATE
Fredrick R. Stater								702-651-2200		11   01   24
Plant Manager								AREA CODE NUMBER		YEAR MO DAY
TYPED OR PRINTED								702-651-2200		11   01   24
COMMENT AND EXPLANATION OF ANY VIOLATIONS								OFFICER OR AUTHORIZED AGENT		
Facility Ponds								SIGNATURE OF PRINCIPAL EXECUTIVE		
								OFFICER OR AUTHORIZED AGENT		

*Fredrick R. Stater*  
 SIGNATURE OF PRINCIPAL EXECUTIVE

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE PENALTIES FOR PROVIDING OR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: Tronox LLC  
 NAME: Tronox LLC  
 ADDRESS: PO BOX 55  
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)  
 PERMIT NUMBER: NEV2001516  
 DISCHARGE NUMBER: 001

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 Attn: Fredrick R. Stater

MONITORING PERIOD  
 FROM 10 | 11 | 01 TO 10 | 11 | 30

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNIT	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/dav)				
Flow Influent	SAMPLE MEASUREMENT	Please see attached Table 1			MGD	-----	-----	-----	0	Monthly	Flow Meter
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	PERMIT REQUIREMENT	Monitor and Report				Monitor and Report					
Pond Water Level	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Bi-Monthly	Discrete	
	PERMIT REQUIREMENT	Monitor and Report				Monitor and Report					
Storage Volume	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Bi-Monthly	Calculation	
	PERMIT REQUIREMENT	Monitor and Report				Monitor and Report					
Water Balance Information	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1			0	Monthly	Calculation	
	PERMIT REQUIREMENT	Monitor and Report				Monitor and Report					
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER								TELEPHONE		DATE	
Fredrick R. Stater								702-651-2200		11   01   24	
Plant Manager								AREA CODE NUMBER		YEAR MO DAY	
TYPED OR PRINTED								702-651-2200		11   01   24	
COMMENT AND EXPLANATION OF ANY VIOLATIONS								SIGNATURE OF PRINCIPAL EXECUTIVE		OFFICER OR AUTHORIZED AGENT	
Facility Ponds								<i>Fredrick R. Stater</i>			

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(Reference all attachments here)

PERMITTEE NAME/ADDRESS: Tronox LLC  
 NAME: Tronox LLC  
 ADDRESS: PO BOX 55  
 HENDERSON, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

NEV2001516  
 PERMIT NUMBER

001  
 DISCHARGE NUMBER

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 Attn: Fredrick R. Stater

**MONITORING PERIOD**

FROM 10 | 12 | 01 TO 10 | 12 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)				UNIT
Flow Influent	SAMPLE MEASUREMENT	Please see attached Table 1			MGD	-----			0	Monthly	Flow Meter
	PERMIT REQUIREMENT	Monitor and Report				-----					
Leak Detection Information	SAMPLE MEASUREMENT	-----				Please see attached Table 2			0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT	-----				Monitor and Report					
Pond Water Level	SAMPLE MEASUREMENT	-----				Please see attached Table 1			0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT	-----				Monitor and Report					
Storage Volume	SAMPLE MEASUREMENT	-----				Please see attached Table 1			0	Bi-Monthly	Calculation
	PERMIT REQUIREMENT	-----				Monitor and Report					
Water Balance Information	SAMPLE MEASUREMENT	-----				Please see attached Table 1			0	Monthly	Calculation
	PERMIT REQUIREMENT	-----				Monitor and Report					
TYPED OR PRINTED	SAMPLE MEASUREMENT	-----				-----					
	PERMIT REQUIREMENT	-----				-----					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER		-----				-----					
Fredrick R. Stater		-----				-----					
Plant Manager		-----				-----					
TYPED OR PRINTED		-----				-----					
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER		-----				-----					
OFFICER OR AUTHORIZED AGENT		-----				-----					
TELEPHONE		-----				-----					
DATE		-----				-----					
AREA CODE NUMBER		-----				-----					
YEAR		-----				-----					
MO		-----				-----					
DAY		-----				-----					
702-651-2200		-----				-----					
11   01   24		-----				-----					

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COMMENT AND EXPLANATION OF ANY VIOLATIONS  
 Facility Ponds

(Reference all attachments here)

00044/961223-1801

PAGE 1 OF 1

**ATTACHMENT 2**

**Pond Monitoring  
Results**

Table 1a – Mn-1 Pond Monitoring Information

Date	Flow Into Pond (MGD)	Storage Volume (thousand gallons)	Water Balance (thousand gallon)	Discharge from Pond (thousands gallons)
10/11/10	0.00033	1,894	266	0.0
10/27/10		1,928		
11/10/10	0.00035	1,894	151	0.0
11/26/10		1,894		
12/10/10	0.00030	1,894	42	0.0
12/27/10		1,961		

Table 2a – Mn-1 Pond Leak Detection Monitoring

Date	Volume in Detection Well (gallons pumped)
10/11/10	0.0
10/27/10	0.0
11/10/10	0.0
11/26/10	0.0
12/10/10	0.0
12/27/10	0.0

Table 1b – WC East Pond Monitoring Information

Date	Flow Into Pond (MGD)	Storage Volume (thousand gallons)	Water Balance (thousand gallon)	Discharge from Pond (thousand gallons)
10/11/10	0.078	4,212	-402	0.0
10/27/10		3,463		
11/10/10	0.078	2,905	177	0.0
11/26/10		2,636		
12/10/10	0.084	2,762	981	0.0
12/27/10		3,263		

Table 2b – WC-East Pond Leak Detection Monitoring

Date	Volume in Detection Well (gallons pumped)
10/01/10 thru 10/15/10	0
10/16/10 thru 10/31/10	0
11/01/10 thru 11/15/10	0
11/16/10 thru 11/30/10	0
12/01/10 thru 12/15/10	0
12/16/10 thru 12/31/10	0

Table 1c – WC-West Pond Monitoring Information

Date	Flow Into Pond (MGD)	Storage Volume (thousands gallons)	Water Balance (thousands gallon)	Discharge from Pond (thousand gallons)
10/11/10	0.018	7,912	214	0.0
10/27/10		8,107		
11/10/10	0.007	8,166	189	0.0
11/26/10		8,245		
12/10/10	0.011	8,325	172	0.0
12/27/10		8,667		

Table 2c – WC-West Pond Leak Detection Monitoring

Date	Volume in Detection Well (gallons pumped)
10/11/10	0.0
10/27/10	0.0
11/10/10	0.0
11/26/10	0.0
12/10/10	0.0
12/27/10	0.0

Table 1d – AP-5 Pond Monitoring Information

Date	Flow Into Pond (MGD)	Storage Volume (thousand gallons)	Water Balance (thousand gallon)	Discharge from Pond (thousand gallons)
10/01/10	0	698	172	0.0
10/15/10		698		
11/01/10	0	698	72	0.0
11/17/10		670		
12/01/10	0.0014	670	9.2	0.0
12/15/10		640		

Table 2d – AP-5 Pond Leak Detection Monitoring

Date	Volume in Detection Well (gallons pumped)
10/01/10	0.0
10/15/10	0.0
11/01/10	0.0
11/17/10	0.0
12/01/10	0.0
12/15/10	0.0



**ATTACHMENT 3**

**Pond Pictures 2010**



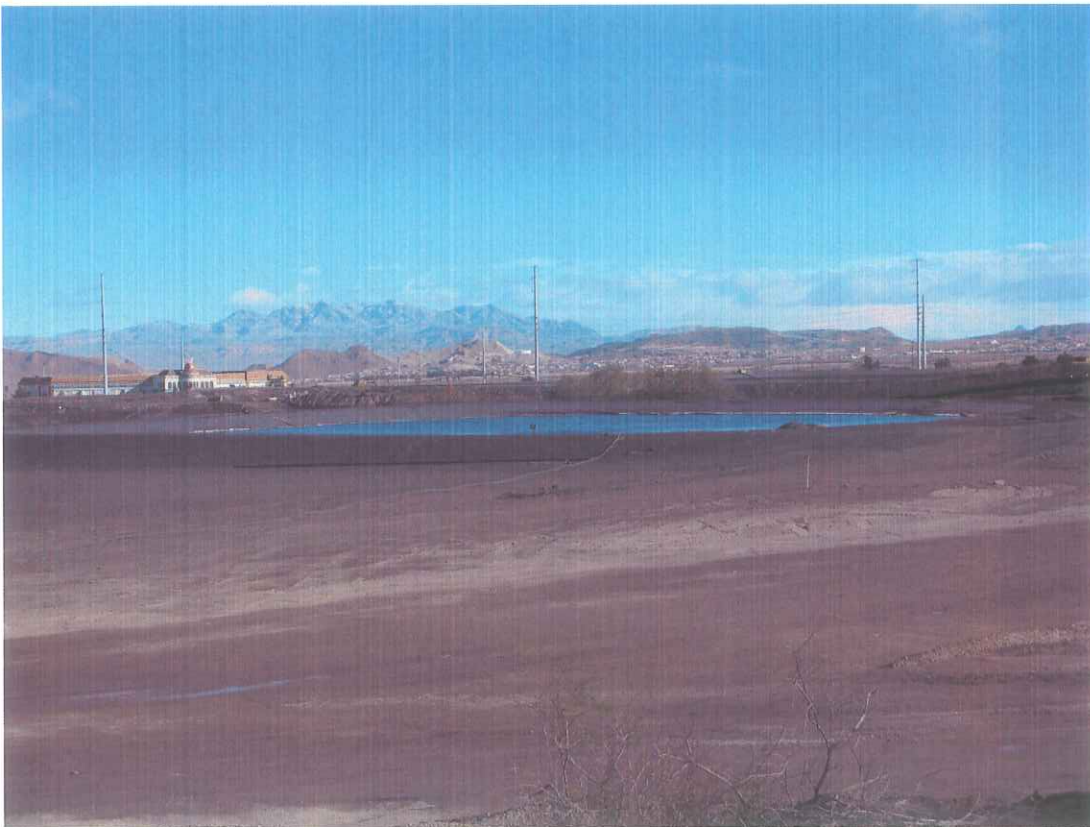
WC-East Pond ( Dec 29<sup>th</sup>, 2010 )



WC-West Pond ( Dec 29<sup>th</sup>, 2010 )



AP-5 Pond ( Dec 29<sup>th</sup>, 2010 )



MN-1 Pond ( Dec 30<sup>th</sup>, 2010 )