



# FIELD ACTIVITY REPORT

Report Number/Date:

25 June 09

Project Name:  
TRONOX ANNUAL SAMPLING

Project Number:  
2009254V2

Report By:  
V. HANSEN

Personnel:  
V. HANSEN, P. BRINKERHOFF

Location:  
WATER TREATMENT PLANT

Equipment:  
GASQUART PURGE PUMP, 2" WATER LEVEL METER, HAND BAILLETS

Client:  
TRONOX, LLC

Weather:  
MOSTLY CLOUDY, BREEZY & WARM/HUMID

0800: PHIL & I ARRIVE @ TRONOX

0810: SIGN IN & PICK UP BOTTLES FROM SUSAN'S OFFICE & H<sub>2</sub>O LEVEL METER FROM MIKE S.'S OFFICE

0815: PHIL TO TRX UNIT 2 (WED) TO LOOK FOR SCREWDRIVER / TOOL BOXES & V LABEL BOTTLES

0825: LEAVE TRONOX & HEAD TO SNV WAP ~ @ TRONOX ASK ROB TO PLEASE CALL ME ON MY CELL WHEN FEDEX SHIPMENT ARRIVES. SAMPLE BOTTLE FOR ClO<sub>2</sub> WILL ARRIVE @ TRX @ ~ 9:30 AM.

0845: ARRIVE @ NTP; ASK DORA IF WELLS ARE ACCESSABLE, YES, A HOLE HAS BEEN CUT THROUGH & FENCE COMPANY IS WORKING ON INSTALLING GATE DOOR.

0900: SOUND PC-2 DTW: 26.95' DTB: 34.67'

0910: SOUND PC-4, SOUND DEEP BATTERY? NO, JUST FAULTY CONNECTION w/ BATTERY. DTW: 32.49

0925: SOUND PC-1 & IT IS DRY

0940: SOUND PC-94; DTB = 19.40; DTW = 12.70'

0945: DEEP SOUNDER & WILL BE TAKEN TO DANA & DIEREN TO USE FOR PHASE B SAMPLING. DRIVE TO TRONOX TO DEEP OFF SOUNDER, SUSAN CROWLEY CALLS RE: BOTTLE FOR ClO<sub>2</sub> ~ @

~~1000~~: VEDLIA, PICK UP BOTTLE @ VEDLIA  
HEAD OUT TO SAMPLE

1020: ARRIVE BACK @ PC-94; SET UP TO BEGIN SAMPLING

1035: COLLECT SAMPLE @ PC-94

1040 HEAD OUT TO WATER TREATMENT PLANT TO FINISH  
A SAMPLING

11:00

1120: ARRIVE @ PC-2; SET UP TO SAMPLE  
& THIS IS A ~~SH~~ WELL THAT PUMP DOES NOT WORK UNL. TOO MUCH SEDIMENT? NOT ENOUGH POWER TO PULL H<sub>2</sub>O UP? USE HAND BAILLET TO COLLECT SAMPLE.

Printed Name/Signature: *[Signature]* / VICTORIA HANSEN

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# FIELD ACTIVITY REPORT

Report Number/Date:

25 JUNE 09

Project Name:  
TRONOX ANNUAL SAMPLING

Project Number:  
20092544V1

Report By:  
V. HANSEN

Personnel:  
V. HANSEN, P. BRINKERTLOFF

Location:  
WATER TREATMENT PLANT

Equipment:  
BEDSQUIRT PURGE PUMP, 2" HAND BAILETS, H<sub>2</sub>O LEVEL METER

Client:  
TRONOX, LLC

Weather:  
MOSTLY CLOUDY, BREEZY, WARM/HUMID

1140: COLLECT SAMPLE  
 1250: ARRIVE @ PC-1; COLLECT SAMPLE, PRY  
 1255: ARRIVE @ PC-4; BEDSQUIRT NOT LIFTING H<sub>2</sub>O; USE HAND BAILETS.  
 1215: COLLECT SAMPLE @ PC-4  
 1225: COMPLETE SAMPLING & CLEAN UP & RETURN TO GES

Printed Name/Signature:

*Victoria Hansen* / VICTORIA HANSEN

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### Groundwater Sampling Data Sheet

Well I.D. PC-94 Date: 25 JUNE 09  
 Sampler's Name: V. HANSEN  
 Purging Equipment: GRUNDFOS - BEOSQUIRE PURGE PUMP  
 Client: TRONOX Project No.: 20092544V1

Casing Type: PVC

**UNIT CASING VOLUMES**

Casing Diameter: 2.0 inch      2" = 0.16 gal/lin ft.  
 Total Well Depth: 19.40 feet      4" = 0.67 gal/lin ft.  
 Depth to Water: - 12.70 feet      6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 6.7 feet  
 Unit Casing Volume: x / gallon / foot  
 Casing Water Volume: x / gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 0.6 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>1.0</u>	<u>1035</u>							
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 1.0 Gallons  
 Depth to Water at Sample Collection: /  
 Sample Collection Time: 1035  
 Purged Dry (Y/N): N

Comments: 4.0 HAZ. SUSPENDED SOLIDS; LIGHT GREYISH BROWN.

JET ON PUMP HEAD FOR NEXT WELL.



**Groundwater Sampling Data Sheet**

Well I.D. PC-2 Date: 25 JUNE 09  
 Sampler's Name: R. HANSEN  
 Purging Equipment: TEFLON 2" BAILER  
 Client: TRONOX Project No.: 2009254V1  
 Casing Type: PVC **UNIT CASING VOLUMES**  
 Casing Diameter: 2.0 inch 2" = 0.16 gal/lin ft.  
 Total Well Depth: 34.67 ~~33.6~~ feet 4" = 0.67 gal/lin ft.  
 Depth to Water: - 26.95 feet 6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 7.72 feet  
 Unit Casing Volume: x        gallon / foot  
 Casing Water Volume: x        gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 0.8 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>1.0</u>	<u>1140</u>							
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 1.0 Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: 1140  
 Purged Dry (Y/N):       

Comments: 4.0 LT BROWN w/ SEDIMENT ~ SANDY SILT.  
BAILER HAD TO BE USED ; NO PRESSURE IN PUMP



### Groundwater Sampling Data Sheet

Well I.D. PC-1 Date: 25 June 09  
 Sampler's Name: \_\_\_\_\_  
 Purging Equipment: \_\_\_\_\_  
 Client: \_\_\_\_\_ Project No.: \_\_\_\_\_

Casing Type: PVC

**UNIT CASING VOLUMES**

Casing Diameter: \_\_\_\_\_ inch      2" = 0.16 gal/lin ft.  
 Total Well Depth: 27.45 feet      4" = 0.67 gal/lin ft.  
 Depth to Water: - \_\_\_\_\_ feet      6" = 1.47 gal/lin ft.  
 Water Column Thickness: = \_\_\_\_\_ feet  
 Unit Casing Volume: x \_\_\_\_\_ gallon / foot  
 Casing Water Volume: x \_\_\_\_\_ gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = \_\_\_\_\_ gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: \_\_\_\_\_ Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: \_\_\_\_\_  
 Purged Dry (Y/N): \_\_\_\_\_

Comments: PC1 Dry - SILTY BOTTOM  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



### Groundwater Sampling Data Sheet

Well I.D. PC-4 Date: 25 June 09  
 Sampler's Name: V. HANSEN  
 Purging Equipment: HAND BAILER - 2"  
 Client: TRONOX Project No.: 200925-4/V1

Casing Type: PVC

#### UNIT CASING VOLUMES

Casing Diameter: 2.0 inch      2" = 0.16 gal/lin ft.  
 Total Well Depth: 43.34 feet      4" = 0.67 gal/lin ft.  
 Depth to Water: - 32.49 feet      6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 10.85 feet  
 Unit Casing Volume: x        gallon / foot  
 Casing Water Volume: x        gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 1.0 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
1.0	1215							
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 1.0 Gallons  
 Depth to Water at Sample Collection:         
 Sample Collection Time: 1215  
 Purged Dry (Y/N): N

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629  
(626) 568-6400 (800) 566-5227

MWLABS USE ONLY:  
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: \_\_\_\_\_  
SAMPLE TEMP, RECEIPT AT LAB: \_\_\_\_\_

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **Trionox LLC** PROJECT JOB # / P.O.#: \_\_\_\_\_ (check for year)

Annual Groundwater Sampling - April / May

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)						SAMPLER COMMENTS		
							pH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO <sub>4</sub>	TDS		2103 9052	
1035	25 JUNE 2009	PC-94	PC-94.062509	RGW	X		X	X	X	X					
1035		PC-94	PC-94.062509				X	X	X	X					
1035		PC-94	PC-94.062509				X	X	X	X					
1140		PC-2	PC-2.062509				X	X	X	X					
1140		PC-2	PC-2.062509				X	X	X	X					
1140		PC-2	PC-2.062509				X	X	X	X					
1215		PC-1	PC-1.062509				X	X	X	X					
1215		PC-1	PC-1.062509				X	X	X	X					
1215		PC-1	PC-1.062509				X	X	X	X					
1215		PC-1	PC-1.062509				X	X	X	X					PRESERVATIVE EDA

\* 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  
 CWIW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water

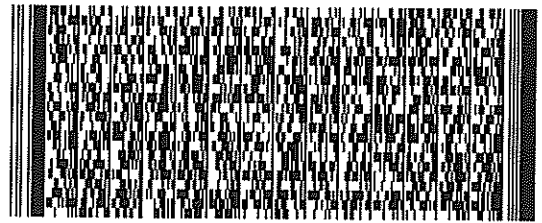
RELINQUISHED BY: *[Signature]* SIGNATURE  
 RECEIVED BY: *[Signature]* SIGNATURE  
 COMPANY/TITLE: *GEORGINA HANSEN* PRINT NAME  
 DATE: *25 June 09* TIME: *1330*  
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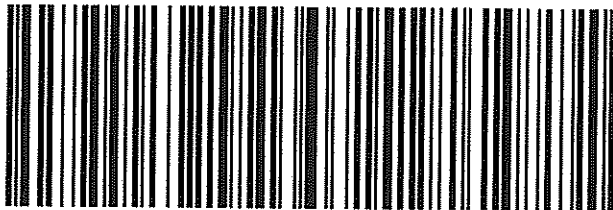
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 Henderson, NV 89015



TRK# 0201  
 7967 2715 3074  
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Ship Date: 25JUN09  
 ActWgt: 35.0 LB  
 CAD: 100263135/NET9060  
 Account#: S \*\*\*\*\*  
 Dims: 21 X 15 X 15 IN

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