



FIELD ACTIVITY REPORT

Report Number/Date:

5-28-09

Project Name: TROMOX ANNUAL	Project Number: 2009 2544 VI
Report By: Dang Davis	Personnel: Davis / Qualls
Location: various	Equipment: Bladder pump equipment
Client: TROMOX	Weather: Sunny

0600 - Load truck

0700 - AT AA-01, call Geotech for pump operations instructions.

0737 - Sample at AA-01.

0945 - Locate coordinates for BEC-1, coordinates put it in middle of contact parking lot. Well is supposedly flush marked; possibly buried in track cut - cannot locate.

AT AA-11, can hear nitrogen coming back up well. pull up pump only bottom inch is wet - not enough water to sample with bladder system.

0918 - Unmarked well with bladder pump located in Alpha Ditch approximately 300 feet north of ~~the~~ where Pakco crosses ~~W 114.99362 N 36.05477~~

1048 AT TR-11. Well pressure at 4 psi. Flow rate approximately 1 liter/min (14 min/gallon) will require 35 hours to purge 3 well volumes. Use Garmin to locate TR-11 W 115.01073 N 36.05440

1123 AT TR-7, TR-8. OUR UNIVERSAL QUICK CONNECT DOES NOT ATTACH TO EITHER WELL. GO TO SEPARATE UNIT TO TRY AND LOCATE BOX OF FITTINGS.

1230 TR-12 ~~psi~~ 13.5 psi, Flow rate of 0.5 liter/min will need ~90 hours to purge 3 volumes; leaving TR-12 flow now to sample on Monday morning. - 6-1-09. will open TR-11 later (Sat) so that TR-11, TR-12 can be sampled on same day.

Printed Name/Signature:

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FIELD ACTIVITY REPORT

Report Number/Date:

5-28-09

Project Name:

THOROX ANALYSIS

Project Number:

2008 254461

Report By:

Davis

Personnel:

Davis / Qualls

Location:

U Amos

Equipment:

Bladder Pump.

Client:

THOROX

Weather:

Sunny

1300 - Connection for well cover not with other crew. Go to TR-1.

TRP 1 = 11 PSI, flow rate at 0.5 liter/min.

212 feet well; need to purge for 290 hours to purge

3 well volumes. Leave well open; will sample morning with TR-11, TR-12

1400 Cannot find fittings for well head.

Vicki is out of Nitrogen, take our Nitrogen tank to second crew. then take sample to Thorox for shipping.

Printed Name/Signature:

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Groundwater Sampling Data Sheet

Well I.D. AA-01 Date: 5-28-09
 Sampler's Name: _____
 Purging Equipment: Dedicated bladder well
 Client: TRONOX Project No.: 2005254011

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 4 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 51.52 feet 4" = 0.67 gal/lin ft.
 Depth to Water: -47.71 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 3.81 feet
 Unit Casing Volume: x 0.67 gallon / foot
 Casing Water Volume: x 2.55 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>1.9 Gall</u>	<u>7:25</u>					<u>24.7°C</u>	<u>7.53</u>	<u>Clear</u>
<u>1.25</u> 7.5 Gall	<u>7:30</u>	X	X	X		<u>24.8°C</u>	<u>7.53</u>	<u>Clear NO change</u>
<u>1.5</u> 2.9 Gall	<u>7:35</u>	X	X	X		<u>24.8</u>	<u>7.53</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 1.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0737
 Purged Dry (Y/N): _____

Comments: Controler 45 psi
Charge time 11
Exhaust time 18



Groundwater Sampling Data Sheet

Well I.D. BEZ-1 Date: 5-28-09
 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: _____ 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: Cannot locate. Use Garmin to locate coordinates in parking lot for contact; Flush want well buried in track out lot or dirt next to fence.



Groundwater Sampling Data Sheet

Well I.D. AA-11 Date: 5-28-09
 Sampler's Name: Davis/Orvath
 Purging Equipment: Dedicated bladder
 Client: TRONIX Project No.: 20092544V1

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: 31.60 feet
 Depth to Water: - 30.55 feet
 Water Column Thickness: = ~~31.60~~ 1.05 feet
 Unit Casing Volume: x 0.67 gallon / foot
 Casing Water Volume: x 0.7 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 2 gallons

UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 4" = 0.67 gal/lin ft.
 6" = 1.47 gal/lin ft.

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: Can hear Nitrogen coming to surface;
Bring pump to surface, only bottom 2 inches
of bottom is wet; not enough water in well for
bladder



750 Royal Oaks Dr, Suite 100, Menlo Park, CA 94025-3629

(650) 568-6400 (800) 566-5227

LABS USE ONLY:

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN _____ PARTIALLY FROZEN _____ THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME Tronox LLC Sampler		PROJECT JOB # / P.O.# Annual Groundwater Sampling - April / May	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES <input type="checkbox"/> (check for yes)
ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			

Tronox LLC
PO Box 55
Henderson, NV 89009
Brian Ho / Susan Crowley (702) 651-2234

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	pH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO ₄	TDS	SAMPLER COMMENTS
0737	5-28-09	AA-01		RGW	X					X	X	X	

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

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Doug Davis	GES/ Geologist	5-28-09	1420
RELINQUISHED BY:					
RECEIVED BY:					

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



J39110001302523

Ship Date: 28MAY09
 ActWgt: 29.0 LB
 CAD: 100845654/NET9011
 Account#: S *****

Delivery Address Bar Code



Ref # Annual Water Sampling-10181.23
 Invoice #
 PO #
 Dept #

SHIP TO: (626) 568-6400 BILL SENDER

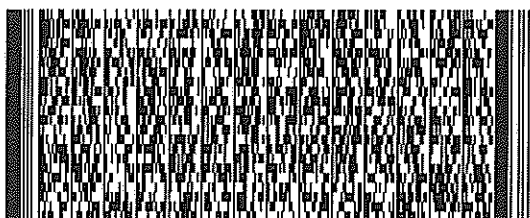
Attn: Sample Receiving
 Montgomery Watson Labs
 750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

FRI - 29MAY A2

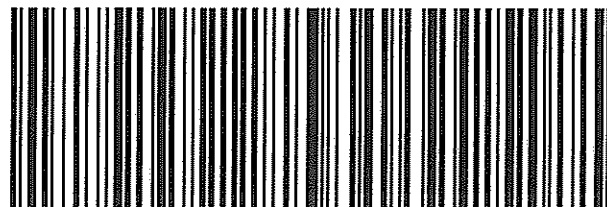
PRIORITY OVERNIGHT

TRK# 7966 4665 4515
 0201



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