

# Field Activity Report



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660

Tel: (949) 260-9293 Fax: (949) 260-9299

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Date: Wednesday 6-10-09

Recorded By: Dana R. Brown

Project Name: Tronox Phase B Sampling

Project No.: 2027.01.025

Client Name: TRONOX

Weather: Clear & Breezy

Temperature: 70° - 90°

Site Conditions: \_\_\_\_\_

### NORTHGATE PERSONNEL ON-SITE

Dana R. Brown

### VISITORS

Name	Company/Agency	Time Arrived	Time Left

### CONTRACTORS

Contractor: GES

Phone No.: (702) 365-1001

Supervisor: Rich Cooke

Task: Soil + Groundwater Sampling

Company	No. of Supervisors	No. of Workers	Remarks
<u>GES</u>	<u>1 - Victoria Hansen</u>	<u>1</u>	<u>Doug Davis</u>
<u>Water Crew</u>	<u>1 - Phil Brintanhoff</u>		
<u>Soil Crew</u>			

### EQUIPMENT

Truck  
PPE

Time Start: 05:30 End: \_\_\_\_\_  
 Mileage Start: 150665 End: \_\_\_\_\_  
Breakfast  
Lunch  
Dinner  
Supplies

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Date: 6-10-09

Recorded By: Dana R. Brown

Project Name: Tranox Phase B Sampling  
Client Name: TRONOX

Project No.: 2027.01.02S

ACTIVITIES

Time:	Activities (include event, time, observations, observers, etc.)	
05:15	Mob up for Soil + Groundwater sampling	150665
05:30	Drive to GFS	
06:00	Arrive, Meet Rich, Victoria, Doug & discuss S.O.W. Call from Derrick; Call him when mobilizing to site - he needs drink cooler from my truck.	150675
07:05	Finish preparations for G.W. sampling.	
07:20	<del>UPS</del> UPS Arrives! Get YSI & Begin Calibration Drive to site = CAMO Exclusion Zone good check. Meet Derrick & hand off cooler + soil stakes bucket. Meet Doug & get Tyvek	150686
08:00	① M-6A. Peron pump & set up well. No locked well; Approx 3.4' stuck. Tag 39.21' = BTOC; TD = 47.80 = TD Soft 2" PVC well in 6" Steel Screw	
08:45	Screened Interval = 26.8' - 41.5'. Pulled dedicated boiler from hole. <del>Lower pump into hole. Set @ 42.0' ORB 6-10-09</del>	
08:48	② DTW 38.49', ③ 08:58 38.22 broc Set drawdown meter @ 38.52	
08:50	Lower pump into hole, set @ 41' BTOC,	
09:04	DTW 39.36 Start purge. Drawdown set @ 39.66 Reduce pressure to 30 lbs @ 5 sec charge + 5 sec discharge. Well is experiencing excessive drawdown, even with pump throttled back to - lower flow settings.	
09:37	Turn up pump & lower to bottom of hole. Attempt to purge well dry.	
10:09	Call from Frank: RSAM4 NO GRO Coc does not list one, but label was provided. Call to Phil & communicate RSAM4	
10:20	Finish collection of Yearly & RCRA Samples @ 09:54 & pH = 7.15 purged 3 casing volumes from well, unable to pump dry & bladder pump	
10:43	Sampling M-6AB @ DTW = @ 10:17 am calls to Dick Lobinger & Chris White - left messages 720 641 8660 3038688168	
10:54	Meet Chris White, escort to AA-BW-02	
11:01	DTW = 39.87 TD = 55.92 4" well PVC locked & dedicated was locked but cover broken so able to be opened without by bladder pump WRONG WELL -	
11:09	Find AA-BW-02, screws 33-55 Tap water level	150686
12:00	Call from Derrick, Meet up Rich + Kyle @ 3pm w GFS office. Commence Collection of AA-BW-02B	
12:57	lan bottle filled	

Print Name: Dana R. Brown

Signature:

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Date: 6-10-09

Recorded By: Dana R Brown

Project Name: Tronox Phase B Sampling

Project No.: 2027.01.02S

Client Name: Tronox

ACTIVITIES

Time:	Activities (include event, time, observations, observers, etc.)
	Final parameter set measured
	Clean up & pack up.
13:13	Exit for truck wash
13:20	Exit truck wash
13:48	AGS office
	Talk to Rich: Complaint from Chris White? Driving around 1-hour? - looking for wells? Discussed timing of Chris.
	Call to Phil: to get samples collected. He will be back in 20 min - SAB5, SASS, SAS6, SA176, RSA03 = All. 5 samples SAM4 = on other side of fence, could not find SA166.
14:24	Call to Maria - Report # of borings & name. - Need to get more points from Derrick, she only has 3 for tomorrow.
14:40	Prepare CDC's - Doug is preparing coolers. Finish Daily Field reports: Summary Data: In CAMU Exclusion zone all personnel were in Level D - plus Tyvek suits and booties. Trucks were decont'd by washing wheels - Tailgate safety meeting was conducted @ 08:45.
HASP	Weather Scattered high clouds & variable winds, 85-90°.
Calibration	YSI Meter was calibrated prior to use and field checked @ 14:58. Calibrated pH, SC, ORP.
Decon	Equipment decontaminized with soap DI, DI rinse, DI final rinse.
Waste Disposal	Solid wastes (PPE) disposed of to Disposal Unit in Phase II of CAMU. Liquid wastes drummed for disposal at Vironex when drum is full.
Sampling Summary	Collected water samples M-6AB and AA-BW-02B.
Derivations:	Well M-6AB not able to be sampled as low flow. Excessive drawdown drawdown stabilized @ 43ft and 3 casing volumes were purged. Samples collected from bladder pump after pump backed down to lower flow rate, after 3 casing volumes purged (11.9 gallons). PPE 6-10-09
Visitors	No Site Visitors Call to Derrick
15:30	Meet Derrick @ 10 <sup>32</sup> in Tronox Library. We will all go together.

Print Name: Dana R. Brown

Signature:

Location IRONOX, CANVA, NV Henderson, NV Date 10 JUNE 09 21  
 Project / Client IRONOX PHASE B (GROUND) WATER SAMPLING, IRONOX, LLC

HEALTH & SAFETY  
 DAILY SITE SAFETY MEETING RECORDED SIGNED @ 0845  
 CONTAMINATION PREVENTION, SAFETY EQUIPMENT, GLOVES, HAZARD TAP, TUBES  
 PERSONNEL INCLUDE: <sup>RES</sup> V. HANSEN, D. BROWN, & NORTH CAROLINA  
 DOUG DAVIS - GES  
 WEATHER: MOSTLY CLOUDY, BREEZY, WARM  
 ~ 80° @ 0900; WINDS LIGHT & VARIABLE  
 8SW TO SW  
 CALIBRATION OF EQUIPMENT OCCURRED @ GES @ 0720 AM  
 DECON STATION INCLUDES: 1 - LIQUINOX & DI they  
 2 - DI RINSE & 3 - 2nd DI RINSE @ M-6A  
 0830 ARRIVE ON SITE TAKE DTW = 39.21'  
 DTW = 47.80; SET BOTTOM; NO LOCK  
 NEW DTW = 38.22; DROP DOWN SET @ 38.52'  
 PRESSURE SET @ 35 PSI 5/5 -  
 URDP DOWN METER ALARMED; RESET DROP DOWN TO 39.66; NEW DTW = 39.36'  
 PRESSURE SET @ 30 PSI 3/3

Location IRONOX, CANVA, NV Henderson, NV Date 10 JUNE 09 21  
 Project / Client IRONOX PHASE B (GROUND) WATER SAMPLING, IRONOX, LLC

FLOW IS VERY LIGHT ↑ THIS TO 4/4 ~  
 GUARDED FLOW; DROP DOWN METER ALARM  
 0930 UNTIL THIS POINT DROP DOWN  
 METER ALARMED; BURPED FLOW; WILL  
 PURGE WELL & CALCULATE DISCHARGE  
 @ 0925 - LOST FLOW & THIS TO ↑  
 PSI & CHARGE / EXHAUST TIMES ↓  
 0940 DECIDE TO MOVE TO NEXT WELL  
 AA-BW-02 & COME BACK TO M-6A  
 TO FIND RECHARGE RATE & POSSIBLY  
 SAMPLE  
 0955 VICTORIA HANSEN OFF SITE; SEE  
 DANJA BROWN LOG FOR FURTHER FIELD  
 NOTES.  
 No FUNCTION ENTRIES (A)

Geotr ical Environmental Services, Inc. LOW FLOW PURC ND SAMPLE FORM

7150 Pracid St.  
Las Vegas, NV 89119  
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Well ID: M-6A  
Date: 10.FEB.07  
Sample ID: M-6A.B  
Time: 0900  
Analysis: QA/QC -  
Dup ID: \_\_\_\_\_  
Rinsate ID: \_\_\_\_\_  
MS/MSD ID: \_\_\_\_\_

Screened Interval (ft): 26.8 - 41.5  
Pump Intake Depth (ft): 40.0  
Ave. Flow Rate (gpm/lpm): Bladder Pump  
Purging Sampling Device: N/A  
PID Reading at TOC: Solenis 7  
Water Level Instrument: YSI  
Water Quality Meters: \_\_\_\_\_

Well Diameter (in): 20"  
Static Water Level(ft): 38.22  
Total Well Depth (ft): 47.80  
Water Column Length (ft): \_\_\_\_\_  
Minimum Purge Volume: \_\_\_\_\_  
Well Secure - yes/no: \_\_\_\_\_  
Sampler Name: Dana R. Brown

Time	Volume Purged (gal)	Flow Rate (gpm/lpm)	Water Level (feet - TOC) ±0.3 ft	Specific Conductance 5%	pH ±0.1	Temp ±1°C	DO (mg/l) ±10%	ORP ±10%	Turbidity ±10% or <10 NTU	Salinity %	TDS
0910	1.0	0.05	39.68	10.77	7.20	21.86	88.3	80.6	12.8		
0920	1.5	0.05	38.87	10.74	7.19	22.00	1.80	87.5	8.80		
0930	2.0	0.1	39.10	10.63	7.15	21.04	1.53	72.5	7.99		
0954	5.7	0.154	41.70	10.65	7.15	26.00	1.61	73.8	6.50		
10:16	11.0	0.24	43.55	10.66	7.16	25.89	1.59	73.7	6.60		
10:18	11.15	0.075	42.05	10.68	7.15	25.90	1.60	73.7	6.51		52.0 ml dr. down then sampled.
Final Field Parameter Measurements											
10:40	13.5	0.12	45.10	10.63	7.15	26.01	1.57	72.9	6.75		Darcy Sampling flow turned down.

Comments: Not sampled low flow. purged 3 casing volumes then sampled.

