



FIELD ACTIVITY REPORT

Report Number/Date:

5-21-09

Project Name:

TRONOX

Project Number:

20092544V1

Report By:

Davis

Personnel:

Davis / Qualls

Location:

Janus

Equipment:

Enviro

Client:

TRONOX

Weather:

0600 - AT GES, LOAD UP

0723 - set up at M-64 after checking in with Veolia

0740 - collect sample at M-64

0817 - collect sample at M-136

0901 - collect sample at MW-16

1051 - collect sample at MW-132

1200 collect DUPLICATE SAMPLE AT MW-132

~~1134~~ - DUMP TRASH

1300 cannot locate M-111A; THERE IS AN UNMARKED MONITOR WELL BEHIND CHAIN LINK FENCE THAT IS CLOSE BASED ON COORDINATES. NEED TO VERIFY BEFORE SAMPLING.

1320 SET UP AT M-126

1337 collect sample at M-126

1410 collect sample at M-1

1424 - check C-O-C; find missing sample; at 1125 collected sample at M-133

Printed Name/Signature:

Page 1 of 1



Groundwater Sampling Data Sheet

Well I.D. M-127 Date: 5-21-09
 Sampler's Name: Davis / Qualls
 Purging Equipment: Grundfos
 Client: TRONCOYO Project No.: 2009 2544 V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 53 feet
 Depth to Water: 38.5 feet
 Water Column Thickness: = 14.5 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 2.32 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 7 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
1.35	1358					27.8	7.00	cloudy
2.5	1403	X	X	X		28.1	7.05	
4.0	1408	X	X	X		28.4	7.08	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 1410
 Purged Dry (Y/N): N

Comments: well unsurveyed - use GARMIN FOR SURVEY -
W 115.00806° N 36.04745° WGS 84



Groundwater Sampling Data Sheet

Well I.D. M-126 Date: 5-21-09
 Sampler's Name: DAVIS / O'wells
 Purging Equipment: Hand Gs
 Client: TRONAC Project No.: 20082544 V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 42.64 feet
 Depth to Water: - 35.42 feet
 Water Column Thickness: ~~7.22~~ 7.22 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.16 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 3 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
1.5	1329					27.5	7.11	cloudy
2	1332	X	X	X		27.1	7.16	clear
3	1336	X	X	X		26.6	7.17	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 1337
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. M-111A Date: S-21-09
 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: Could not locate. THERE IS AN UNMARKED
2" MONITOR WELL WITH CHAIN LINK FENCE,
BUT THERE ARE SEVERAL IN THIS AREA.
UNKNOWN IF FENCED WELL IS M-111A



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 7150 Placid Street
 Las Vegas, NV 89119
 www.gesnevada.com

Groundwater Sampling Data Sheet

Well I.D. M-133 Date: 5-21-09
 Sampler's Name: DAVIS/Qualls
 Purging Equipment: GeoDicos
 Client: TRONOX Project No.: 20092544V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 73.07 feet
 Depth to Water: - 27.23 feet
 Water Column Thickness: = 45.84 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 7.33 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 22 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
1.5	1112					26.5	7.41	cloudy
2.5	1117	X	X	X		27.0	7.53	clear
3.5	1122	X	X	X		26.5	7.48	
4.5	1127	X	X	X		26.2	7.48	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 1129
 Purged Dry (Y/N): N

Comments:



Groundwater Sampling Data Sheet

Well I.D. M-132 Date: 5-21-09
 Sampler's Name: Davis / Qualls
 Purging Equipment: Grubbs
 Client: TRINOX Project No.: 2009 2544VI

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 93.0 feet
 Depth to Water: 27.5 feet
 Water Column Thickness: 65.5 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 10.48 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 32.0 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
1	1029					26.2	7.90	cloudy / 5:14
2	1034	X	X	X		26.1	7.86	clear
2.5	1039	X	X	X		25.8	7.82	
3	1044	X	X	X		26.7	7.88	
3.5	1049	X	X	X		26.8	7.86	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.5 Gallons
 Depth to Water at Sample Collection: 10.51
 Sample Collection Time: _____
 Purged Dry (Y/N): N

Comments: DUPLICATE SAMPLE



Groundwater Sampling Data Sheet

Well I.D. M-61 Date: 5-21-09
 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: well destroyed, laying in dirt road.



Groundwater Sampling Data Sheet

Well I.D. MW-16 Date: 5-21-09
 Sampler's Name: Davis / Qualls
 Purging Equipment: brunelbos
 Client: Thomson Project No.: 200925441

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 43 feet
 Depth to Water: - 37.1 feet
 Water Column Thickness: = 2.9 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 0.46 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 (Celsius)	pH	Observations
0.5	0850					26.3	7.36	slightly turbid cloudy
1.5	0855	X	X	X		26.1	7.37	clear
2.0	0900	X	X	X		26.2	7.32	clear
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 2 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0901
 Purged Dry (Y/N): N

Comments:



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Groundwater Sampling Data Sheet

Well I.D. M-134 Date: 5-21-05
 Sampler's Name: M-136 Davis/Qualls
 Purging Equipment: Grindfos
 Client: TROROX Project No.: 2005 25 NV 1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 92.50 feet
 Depth to Water: - 29.35 feet
 Water Column Thickness: = 63.15 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 10.1 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 31 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
1.5	0805					25.5	7.90	cloudy
2.0	0810	X	X	X		25.8	7.91	
3.0	0815	X	X	X		25.6	7.90	clear
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0817
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. M-64 Date: 5-21-09
 Sampler's Name: Davis / Qualls
 Purging Equipment: Grundfos
 Client: TRONOX Project No.: 20092544 v1

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 36.0 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 31.0 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 5.0 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 0.8 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 2.4 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>0.5</u>	<u>0725</u>					<u>26.5</u>	<u>7.33</u>	<u>light yellow, translucent.</u>
<u>1.0</u>	<u>0730</u>	X	X	X		<u>26.7</u>	<u>7.40</u>	
<u>2.0</u>	<u>0738</u>	X	X	X		<u>26.5</u>	<u>7.36</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: ~ 2 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0740
 Purged Dry (Y/N): Y

Comments: ~~pump dry at approximately 1.5 gallons?~~
lose flow, lower pump and restart
water level at 33 feet.



CHAIN OF CUSTODY RECORD

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MVLABS USE ONLY:

LOG IN 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		PROJECT JOB # / P.O.#	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
Trinox LLC		Trinox LLC PO Box 55 Henderson, NV 89009						
Brian Ho / Susan Crowley		(702) 651-2234	Annual Groundwater Sampling - April / May					
							PH	
							Specific Conductance	
							Total Chromium	
							Hexavalent Chromium	
							Perchlorate, ClO ₄	
							TDS	
0740	5-21-05	M-64		RGW	X		X	
0817	5-21-05	M-136		RGW	X		X	
0917	5-21-05	MW-16		RGW	X		X	
0910	5-21-05	FB052109		RGW	X		X	
0920	5-21-05	EB052109		RGW	X		X	
1051	5-21-05	MW-132		RGW	X		X	
1129	5-21-05	MW-133		RGW	X		X	
1337	5-21-05	M-126		RGW	X		X	
1410	5-21-05	M-127		RGW	X		X	
	5-21-05	DUPLICATE		RGW	X		X	

* 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:  SIGNATURE

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: _____

DATE: 5-21-05

COMPANY/TITLE: GCS

PRINT NAME: Doug Davis

TIME: 1507

From: Origin ID: LASA (702) 651-2234
 Susan Crowley
 Tronox
 560 West Lake Mead Parkway
 Henderson, NV 89015



J38118901302823

Ship Date: 21MAY09
 Act/Wgt: 50.0 LB
 CAD: 7219287/NET9011
 Account#: S *****

Delivery Address Bar Code



Ref # annual water sampling-10181.23
 Invoice #
 PO #
 Dept #

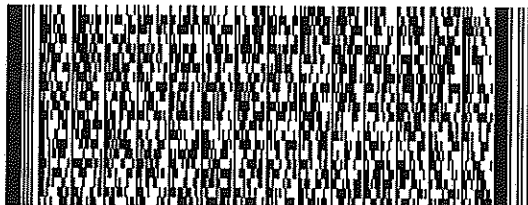
SHIP TO: (626) 386-1100 BILL SENDER

Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100

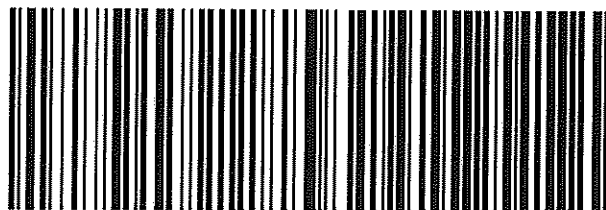
MONROVIA, CA 91016

TRK# 7966 2951 2248
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