



FIELD ACTIVITY REPORT

Report Number/Date:

S-12-09

Project Name:

Tronox

Project Number:

20092544V1

Report By:

P. Brinkerhoff

Personnel:

P. Brinkerhoff / Da. Qualls

Location:

Tronox

Equipment:

Geosump

Client:

Tronox LLC

Weather:

Clear & Hot

1000 Dump purge Drum at Veolia pond

1100 Tagged DM4 For well depth & depth to GW; Well Depth is 20.2' no GW - well is Dry.

1130 Tagged DM5 For well depth (23.6') & Depth to GW (23.3');

1145 Well bottom is obstructed unable to pull sample or purge

1215 Tagged HMW11 For well depth (24.7') & Depth to GW (9.5').

1235 Sample # HMW11

1300 Could not locate L141 or LK3

1330 Tagged PC-24 Well depth (27.1) & Depth to GW (21.0)

1342 Sample # PC-24

1400 Tagged PC-50 For well depth (36.3) & Depth to GW (12.4')

1420 Sample # PC-50

1445 Stopped at Weston trailers on Warm Springs & Pabea to discuss 3 wells on BRC site with Dick & Joe.

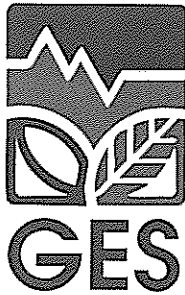
1520 Arrived at AA-01, need Nitrogen as well has dedicated pump.

1530 return to tronox for shipping labels.

1600 Ship Lockers

Printed Name/Signature:

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Groundwater Sampling Data Sheet

Well I.D. ~~PC-24~~ PC-24 Date: 5-12-09
 Sampler's Name: P.B. / D.D.
 Purging Equipment: GeoSub
 Sampling Equipment: _____

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2" inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 29.1 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 21.0 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 8.1 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.30 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 3.89 gallons

Free product measurement (if present): N/A

| Purged (gallons) | Time | DO | Redox | Fe | Conductance (u mhos / x1000) | Temperature (Celcius) | pH | Observations |
|------------------|-------------|----|-------|----|------------------------------|-----------------------|-------------|--------------|
| | <u>1535</u> | | | | | <u>27.9</u> | <u>7.39</u> | |
| | <u>1337</u> | X | X | X | | <u>25.8</u> | <u>7.44</u> | |
| | <u>1340</u> | X | X | X | | <u>24.8</u> | <u>7.44</u> | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |

Total Water Volume Purged: 3.90 Gallons
 Depth to Water at Sample Collection: 27.0
 Sample Collection Time: 1342
 Purged Dry (Y/N): N

Comments: 1 Gal / 5 min



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Groundwater Sampling Data Sheet

Well I.D. Dm5 Date: 5-12-09
 Sampler's Name: P. Benkerhoff
 Purging Equipment: CreoSub
 Sampling Equipment: —

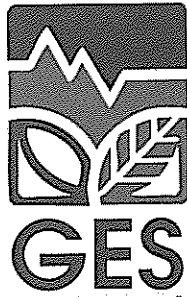
Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 1 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 23.6 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 23.3 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = .3 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 0.5 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = .14 gallons

Free product measurement (if present): N/A

| 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: 0 Gallons
 Depth to Water at Sample Collection: 0
 Sample Collection Time: N/A
 Purged Dry (Y/N): N

Comments: BOTTOM OF WELL OBSTRUCTED COULD NOT
RETRIEVE SAMPLE



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Groundwater Sampling Data Sheet

Well I.D. DM4 Date: 5-12-09
 Sampler's Name: P.B.
 Purging Equipment: _____
 Sampling Equipment: _____

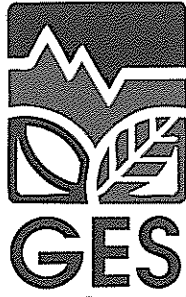
Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2" inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 20.2 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - Dry feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 0 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 0 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 0 gallons

Free product measurement (if present): N/A

| 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: 0 Gallons
 Depth to Water at Sample Collection: 0
 Sample Collection Time: N/A
 Purged Dry (Y/N): N

Comments: well dry no sample



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Groundwater Sampling Data Sheet

Well I.D. Hmw114 Date: 5-12-09
 Sampler's Name: P.B. / D.Q.
 Purging Equipment: GeoSub
 Sampling Equipment: -

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 24.7 feet 4" = 0.67 gal/lin ft.
 Depth to Water: 9.5 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 15.2 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 2.43 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 7.3 gallons

Free product measurement (if present): N/A

| Purged (gallons) | Time | DO | Redox | Fe | Conductance (u mhos / x1000) | Temperature (Celcius) | pH | Observations |
|------------------|------|----|-------|----|------------------------------|-----------------------|------|--------------|
| | 1223 | | | | | 26.2 | 7.18 | |
| | 1223 | X | X | X | | 24.8 | 7.24 | |
| | 1228 | X | X | X | | 24.0 | 7.20 | |
| | 1230 | X | X | X | | 23.9 | 7.18 | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |

Total Water Volume Purged: 7.5 Gallons
 Depth to Water at Sample Collection: 20.0
 Sample Collection Time: 1235
 Purged Dry (Y/N): N

Comments: Flow rate = 1 gallon / 5 min



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Groundwater Sampling Data Sheet

Well I.D. PC50 Date: 12 May 09
 Sampler's Name: P.B./D.O.
 Purging Equipment: Geosub
 Sampling Equipment: _____

Casing Type: PVC
 Casing Diameter: 2" inch
 Total Well Depth: 36.3 feet
 Depth to Water: - 12.4 feet
 Water Column Thickness: = 23.9 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 3.82 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 11.47 gallons
 Free product measurement (if present): N/A

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 |
|------------------|------|----|-------|----|------------------------------|-----------------------|------|--------------|
| | 1404 | | | | | 27.1 | 7.17 | |
| | 1406 | X | X | X | | 25.4 | 7.20 | |
| | 1408 | X | X | X | | 25.2 | 7.21 | |
| | 1410 | X | X | X | | 25.6 | 7.21 | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |
| | | X | X | X | | | | |

Total Water Volume Purged: 1150 Gallons
 Depth to Water at Sample Collection: 34.0
 Sample Collection Time: 1420
 Purged Dry (Y/N): N

Comments: flow rate = 1 gallon / 5 min

