

REDACTED

"Outdoor writing products...
...for outdoor writing people."



RECYCLABLE

"Rite in the Rain" - A unique All-Weather Writing paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and copier paper.

For best results, use a pencil or an all-weather pen.

a product of

J. L. DARLING CORPORATION
Tacoma, WA 98424-1017 USA
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Made in the USA
US PAT NO: 6,863,940



6 32281 35111 5

ROUND 2

MILLS GAP SITE

09-0724

Project Leader - Tim Simpson

Field Sampling Leader - Marty Allen



"Rite in the Rain"

ALL-WEATHER

FIELD

No. 351

SITE: Mills Gap Rd
BREAK: 0.10
OTHER: 13

U.S. EPA
980 College Station Rd
Athens, GA 30605

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



Project name Mills Gap
Project location Asheville NC
Project number C9-0724
Project leader Marty Allen
Sample team leader Marty Allen
Sample team members Mike Crane

Sample station / number ID
Sampling procedure SESD PROC 305-R1
Sample collection equipment (ID, if applicable)
Description of sample
Time
Preservation (including ice)
Team members duties
Conditions during sampling
GPS coordinates
Monitoring - ice
Other pertinent info.

Sample station
Equipment (SESD #, manufacturer, model)
Manufacturer, lot #, exp date of standards
Calibrations before/after readings
Who calibrated
Calibration acceptability.
Time
Sample/media description
Who performed measurement / took notes
GPS coordinates
Site conditions / air temp
Maintenance / malfunctions

Marty Allen

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook.
Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

1	Contents page	7/25/09
2-3	Major Contamination / Detection	9/25/09
4-13	Site Activity	7/28/09
14	Major Contamination / Detection	7/29/09
15-20	Site Activity	9/29/09

9/25/09

Watch ran cool
 All sampling conducted by Marty ~~Esther~~ ^{Alter} me
 in accordance to SESDPROC-305-R1
 Logbook entries by Mike Crowe MRC
 All samples placed on ice immediately after
 sampling by MRC -

Instrument Calibration

1050 To Come by M. Allen / Service M. Crowe

NIST thermometer SESDID 031421-05 3/13/10

Orion 4 Star for conductivity/pH temp

SESDID 100907-05

pH 4 Lot: L010 exp 12/09
 pH 7 Lot: L01F exp. 12/09
 conductivity 1413, 25°C Lot MRLC exp 09/10

	<u>4</u>	<u>7</u>	
pH STD	4	7	No adjustment
pH Real	4	7.01	necessary
Slope	= 97.7		beyond calibration

conductivity 1413 No adjustment
 Reads 1413 necessary for
 Cell const. 0.464 beyond calibration

Temp. NIST 20.6°C Orion 20.4°C

9/25/09

Turbidity HACH ZNP SESDID

753500007172

HACH Cal Stats 4.18

mean 50.4

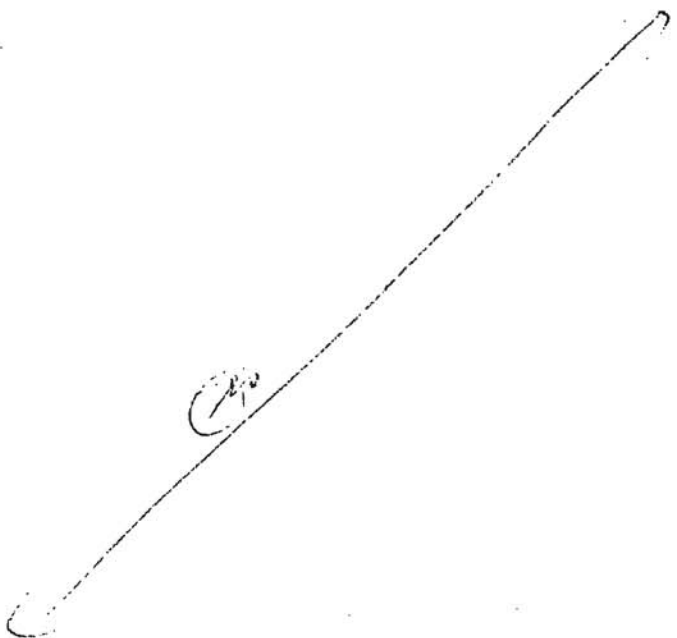
std 500.16

Check

STD: 4.18 50.4 500.16

Read: 4.02 500 515

GPS, Garmin 76CPS SESDID 073108-4

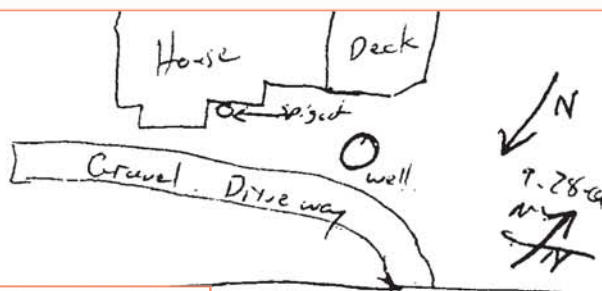


9/28/09

11:47 Arrive

STATION ID:

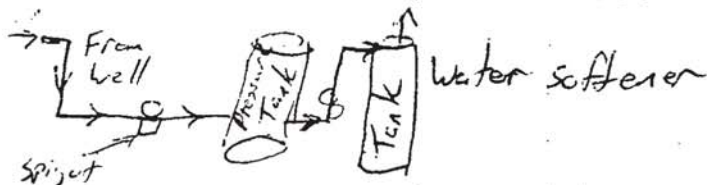
MG-PW132



GPS N 35.48153 ± 22 ft.
Well W 082.49541 ± 22 ft.

Time	Temp.	pH	Cond.	Turb.	NTU
1205	Begin purge @ spigot				
1210	17.5	5.74	131	2.72	
1215	17.1	5.75	128.5	0.13	
1220	17.1	5.77	127.5	0.16	

Resident states there is a pressure tank and some type of filter in the basement see below.



1230 ~ 3 additional gal purged
1235 16.9 5.82 127.3 0.33
1240 Sample time basement spigot 3 VOA
1250 Leave residence MC-132101

9/28/09

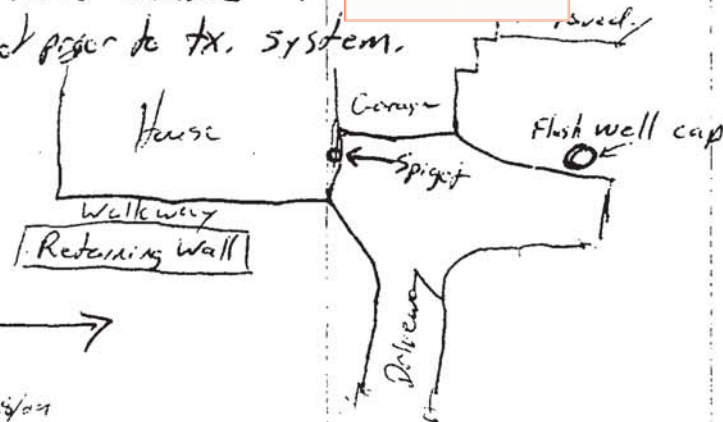
1300 Arrive

Station ID MG-PW131

GPS Well N 35.49627 ± 14 ft.
~ 280' deep. W 082.47749 ± 14 ft.

Make contact

Spigot prior to tx. system.



N →

1315

Time	Temp.	pH	Cond.	Turb.
1315	Begin Purge			
1320	18.9	6.05	90.3	0.19
1325	17.3	6.12	88.8	0.16

1330 17.5 6.16 88.4 0.29

1335 17.3 6.20 89.4 0.05

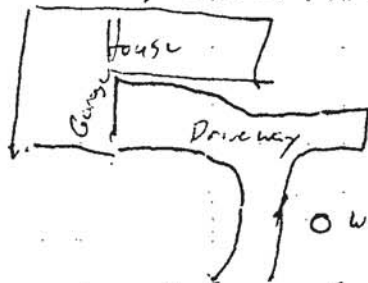
1340 Sample Time 3 VOA

1350 Depart site
SAMPLE ID MG131909

9/28/09

1400 Arrive

Station ID: MG-PW120

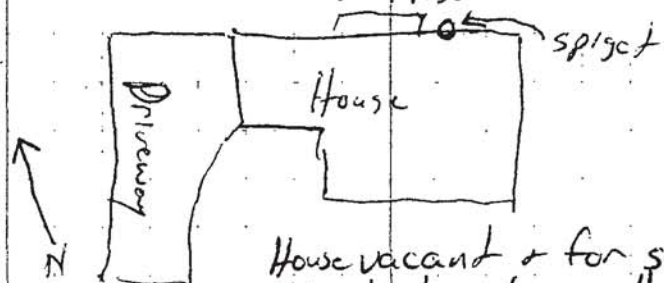
Well GPS N. 35.48883° ± 18 ft
W. 082.49191°

Time	Temp.	pH	Cond.	Turb.
1400	Begin purge			
1405	20.2	6.17	117.6	0.98
1410	15.0	6.29	114.4	1.68
1415	17.7	6.37	115.3	1.06
1415 ^{arrived}				
1420	16.7	6.39	108.8	1.36
1420	Sample Time		3 VOA	
1424	Depart		SAMPLE ID: MG-120909	

9/28/09

1431 Arrive

Station ID: MG-PW134

GPS Sprigot N 35.49360° ± 23°
W 082.49136°House vacant & for sale.
Unable to locate well.

Time	Temp.	pH	Cond.	Turb.
1435	Begin Purge			
1440	19.1	5.94	121.4	1.67
1445	18.7	5.96	109.3	23.1
1450	16.4	5.90	95.8	36.4
1452	17.9	5.88	102.4	20.1
1457	16.3	5.87	96.1	25.1
1500	Sample Time		3 VOA	
1502	Depart		SAMPLE MG-134909	

9/28/09

1507 Arrive

Station ID MG-PW126

GPS Well N 35.49520° ± 27"

W 082.49118° ± 27"



Time	Temp.	pH	Cond.	Turb.
1510	Begin	Purge		
1515	21.9	5.93	102.9	0.25
1520	17.9	6.01	98.5	0.14
1525	16.9	5.99	99.8	0.20
1530	Sample Time	3 VOA		
	MS/MSD	9 VOA		
1535	Depart			

SAMPLE ID: MG-126409

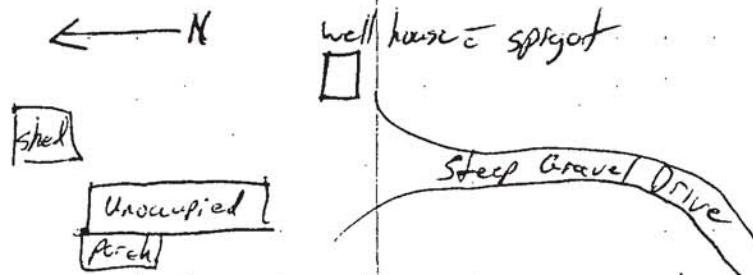
9/28/09

1552 Arrive

Station ID MG-PW130

GPS Well N 35.49575° ± 26 ft

W 082.49161° ± 26 ft



Time	Temp	pH	Cond	Turb.
1555	Begin	Purge		
1600	18.0	6.03	68.3	2.41
1605	17.3	6.01	68.7	4.79
1610	17.4	6.04	68.2	2.66
1615	17.6	6.05	67.7	2.63
1620	Sample	Time	3 VOA	
1622	Depart			

SAMPLE ID MG-130909

9/28/09

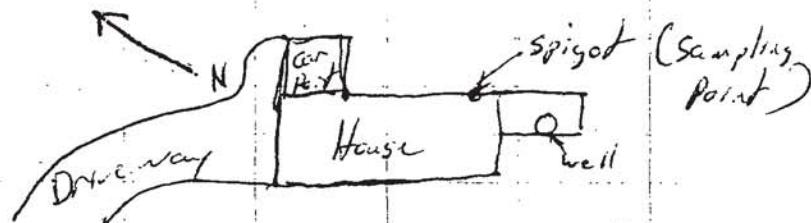
1625 Arrive

Made contact =

Station ID: MGPW129

GPS Well: N: 35.49712° ± 19'

W: 082.49133°



Time	Temp	pH	Cond.	Turb.
1630	Begin	Purge		
1635	17.1	6.03	61.4	0.21
1640	16.2	5.99	61.4	0.17
1645	15.8	6.03	60.7	0.19
1650	Sample Time		3	VOA
1707	Depart		SAMPLE: MG-129909	

9/28/09

STATION: MGPW027

1515-1715 Arrive

1725 Made contact =

resident of

1715 Made contact =

resident of

Mr. Bolous is Landlord of

Well @ but supplies

both houses. That well has a broken

spigot @ the well itself. (Broken knob)

Resident @ states that

there is no filtering system. However,

resident @ states that

she believes that water comes from

well travels to #1, passes through

a filter system and then travels

back to #3. states she paid

\$450 dollars to a couple

of years ago for filter system installation.

GPS Well N: 35.47779° ± 18'

W: 082.49531°

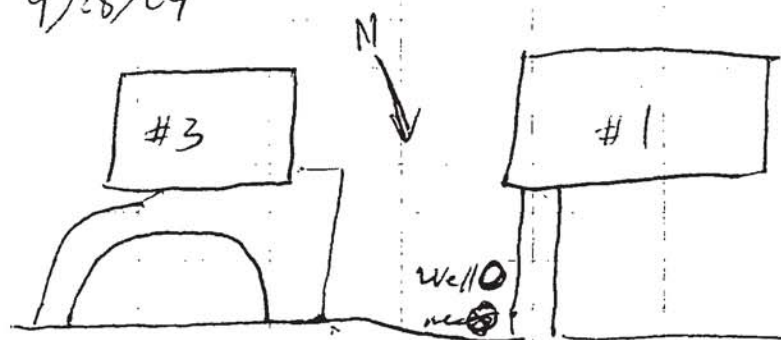
GPS #3 Driveway N: 35.49970°

W: 082.49509°

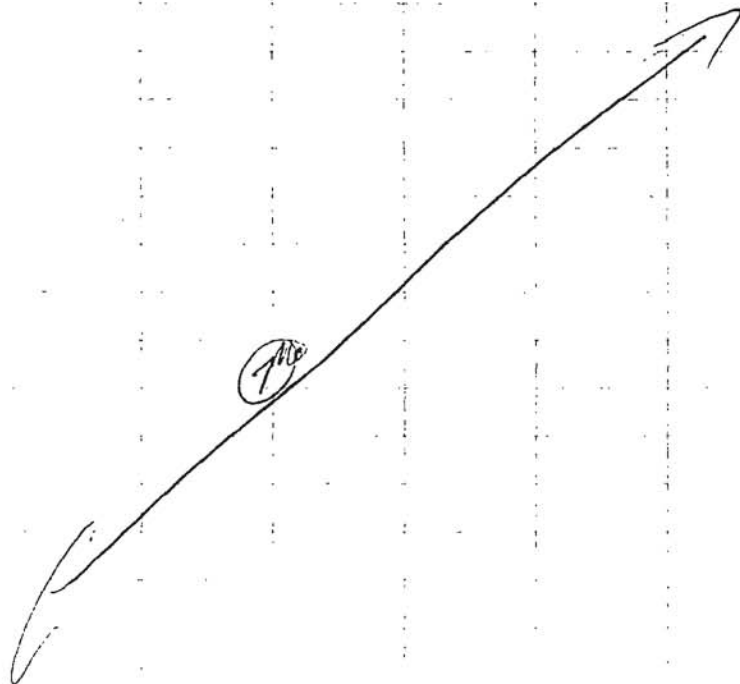
± 22'

12

9/28/09



1756 Depart with intention of returning tomorrow.



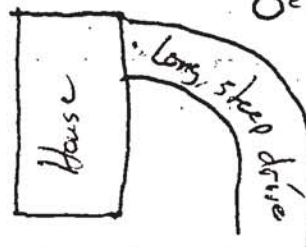
13

9/28/09

me 1757

GPS well N ~~35.0~~ 35.50019° ± 22°
W 082.49362°

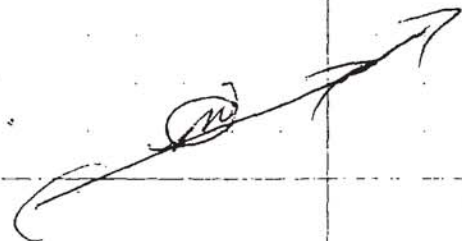
Made contact with [redacted] O'Well & spigot (sampling point)



Station ID
MG-PW024

Time	Temp	pH	Cond.	Turb.
1805	Begin purge			
1810	15.9	6.12	42.3	1.53
1815	15.1	6.04	42.4	0.24
1820	15.9	6.04	42.4	0.18
1822	Sample frame			3 VOA
1825	Depart			SAMPLE ID: MG-024909

All samples placed on ice as a preservative.



9/29/09

0817

Arrive

Station MC-PW128

Instrument Calibration

Same Instruments & lot #s

STD 4 7

Read 4 7.06

Slope 97.6

pH

STD 1413

Conductivity

Reads 1485 → corrected to 1413 during cal. auto

Cell = .470

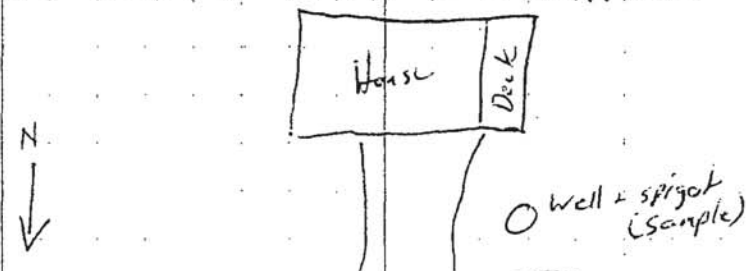
Turbidity

STD 4.18 50.4 516

Reads ~~3.43~~ 48.8 506MC 3.78
9/29/090818 Made contact E.
Sam Inter beehive.

9/29/09

GPS Well N 35.49903 W 082.49372 ±26



Time	Temp	pH	Cond.	Turbidity
0852	Begin Pump			
0855	45.1 15.3° NEST = 15.6°	5.96	84.7	0.43
0900	14.5	5.95	82.4	0.33
0905	13.8	6.04	82.9	0.37
0910	Sample Time		3	VOA
0912	Dup sample time		3	VOA
0916	Depart			

SAMPLE IDS

MC-128909

MC-129909D

respectively.

9/29/09

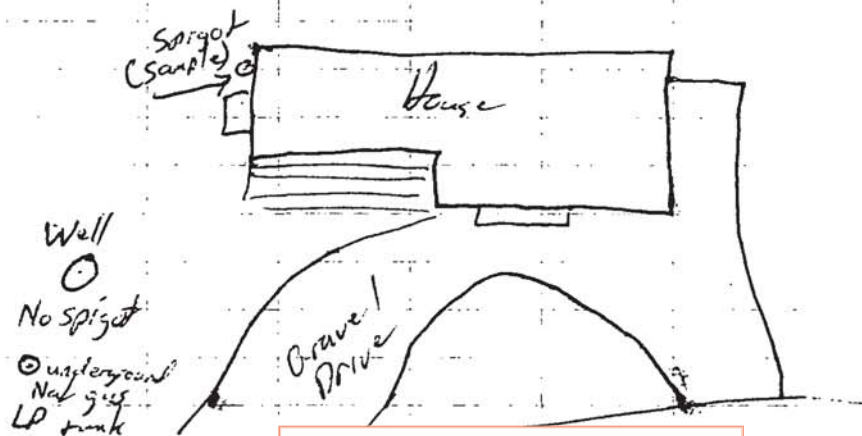
0917 Arrive [redacted]

Made contact w [redacted]

Station ID MGPW026

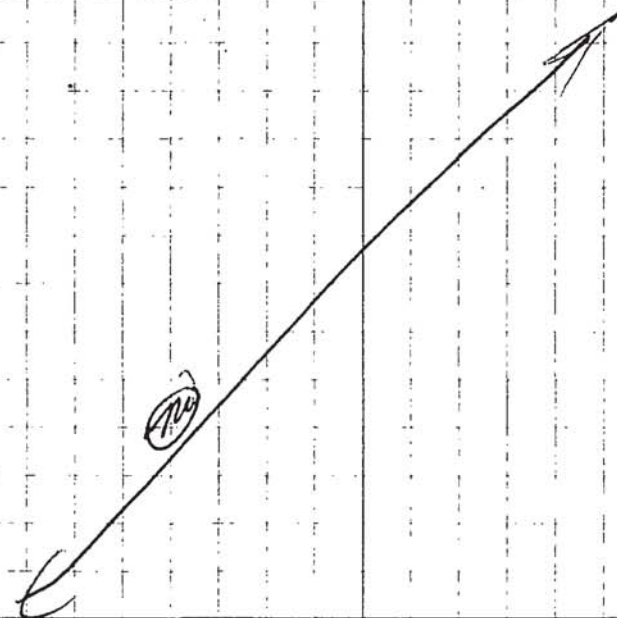
CPS Well N 35.49899° ± 18°
W 082.49395°

No spigot @ well. [redacted] states that he does have a tx. system, but he has the ability to bypass the system. He stated he would bypass the treatment system during our sampling.



9/29/09

Time	Temp	pH	Cond.	Turb.
0927	Begin Pump			
0934	15.6	6.02	66.9	0.92
0939	16.3	5.92	67.6	0.37
0947	15.6	5.87	67.6	0.30
0950	Sample Time 3 VOA			
	Sample ID MGPW026909			
0955	Depart			



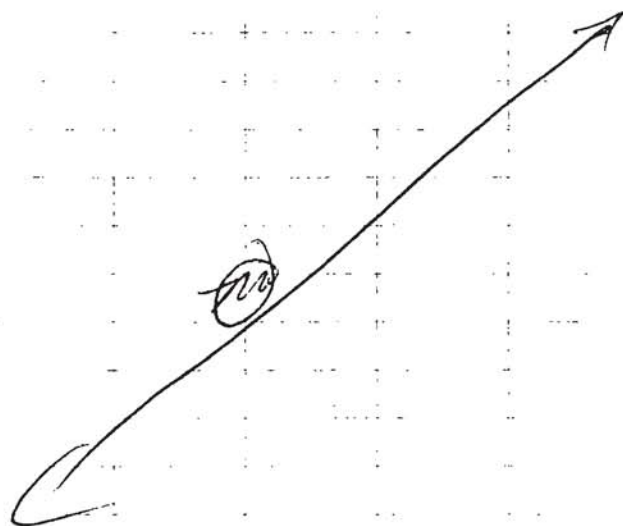
9/29/04 MCPW001

0957 Arrive back e

Drive. Trying to repair spigot @ well
 & new knob. Unable to repair.

Used vice-grip to turn on spigot @ well.

Time	Temp.	pH	Cond.	Turb.
1005	Begin Purge			
1010	15.2	5.71	98.0	1.17
1015	14.8	5.74	97.6	1.06
1020	14.7	5.67	97.4	0.96
1025	Sample Time		3	VOA
1040	Depart		SAMPLE: MC-027909	



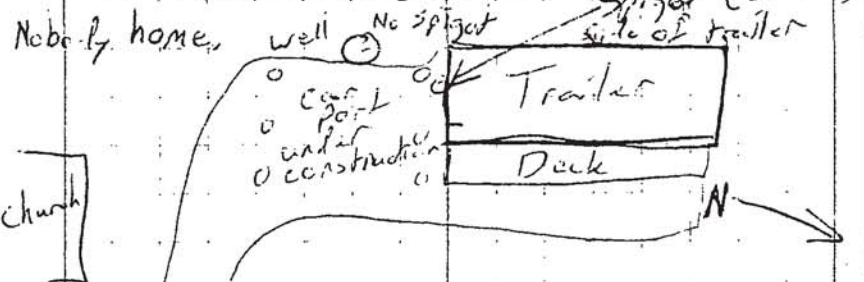
9/29/04 STATION ID: MC-PW 133

1300

Arrive at supposedly
 Property, immediately

NNW of church @

White double wide trailer.



Time	Temp.	pH	Cond.	Turb.
------	-------	----	-------	-------

1305 Begin Purge
 well G-PS N 35.49142 + 15
 W 082.48832

1307 15.5 6.43 191.6 0.26

1314 15.5 6.43 194.1 0.13

1320 15.3 6.47 193.0 0.18

1325 Sample Time 3 VOA

SAMPLE ID: MC-133409

1300 Per Carolyn, RRM go ahead
 and sample the residence

verified
 lines at the property.

1356 Depart

8/29/09
1335 Post Check
Conductivity

STD 1413

Reads 1443

STD 04
4 7

Reads 3.94 6.96

Turb.

STD 4.18 50.4 516

Reads 3.84 49.3 516

Temp.

NTST 17.5

Thermo Orion 17.5

VOA Trip Blank

STATION ID

SAMPLE

#RYDART

QA 801

2 VOA

@ 13:30

- All samples placed on ice as a preservative.
- All samples collected by Marty

