Puerto Rico 6-5-12
CPCPRC
May/June Sampling BNMK

0520 M. Rampyt B. Gross Neel JC
CPCPRC - site
0612 Arrive at gas station to buy ice
0630 Sign in @ guard shack + pickup keys
0637 Load all equipment + pack truck,
gen weather: Low 80's, very hazy,
some clouds. Expect high 80's + hazy.
daily tailgate: Slips/trips/falls, heat,
stay hydrated, high UV index - plenty
of sunscreen, biological/wildlife,
heavy lifting - team lifts.
VSI CAL 4.00=4.00 @ 20:29 7.00=7.00 @ 20:02
10.00=10.00 @ 20:14 ORP=220.0 @ 19.74
Spec cond = 1.413 @ 19.98 DO=9.07 @ 20:24
POD MW-113, MW-112, DMW-4, MW-42,
MW-123D, MW-121, MW-124D (MS/MSD)
0750 @ MW-~~113~~ 112 DTW=13.01 TD=13.15
Will let recharge for another 24hrs
0742 @ MW-113 DTW=16.59 TD=16.75
Will let recharge for another 24 hrs
0900 Setting up @ MW-124D (MS/MSD)
DTW=

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CPCPRC
May/June Sampling BNMR

0804 MW-122 DTW = 7.99
0805 MW-124D DTW = 8.05

Time	Vol	Temp	Cond	pH	DO	ORP	VIS	WL
0817	@	27.66	0.487	8.77	4.58	123.0	clear	8.13
0820	0.3	27.94	0.531	7.90	4.13	146.6	clear	8.14
0823	0.6	28.19	0.552	7.41	3.21	156.4	clear	8.14
0825	0.9	28.11	0.562	7.28	2.80	150.9	clear	8.14
0828	1.2	28.05	0.566	7.25	2.80	149.9	clear	8.14
0831	1.5	28.08	0.569	7.07	2.70	151.6	clear	8.15
0834	1.8	28.09	0.568	7.03	2.67	148.1	clear	8.15
0837	2.1	28.06	0.566	6.99	2.64	143.4	clear	8.15

0840 Collect sample @ MW-124D (MS/MSD)
no odor detected.
0951 Setting up @ MW-123D, DTW = 8.30
Pad around well was not paved,
thick w/ shrubs. Had to prune before
could be sampled

Time	Vol	Temp	Cond	pH	DO	ORP	VIS	WL
1005	@	28.82	0.541	6.89	4.21	245.0	clear	8.34
1008	0.45	28.72	0.537	6.83	3.03	214.1	clear	8.34
1011	0.9	28.72	0.536	6.83	3.07	189.7	clear	8.34
1014	1.35	28.76	0.536	6.82	3.01	199.6	clear	8.34

1015 Collect sample @ MW-123D, no odor
detected

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1040 Setting up @ MW-121, DTW = 6.71
Well pad was not pruned and was
Thick w/ shrub growth Pruned across
area before we could sample. 6.81

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
1051	0	28.73	0.949	7.07	1.55	227.4	clear	~~7.20~~ BN
1054	0.45	28.75	0.951	7.03	0.51	179.6	clear	6.88
1057	0.9	28.79	0.954	7.00	0.43	136.8	clear	6.88
1100	1.35	28.79	0.955	7.01	0.45	1328	clear	6.88

1105 Collected sample @ MW-121, no odor
1135 Setting up @ MW-42, DTW = 5.18

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
1154	0	29.00	0.774	6.93	2.07	-103.5	cloudy	5.18
1157	0.45	28.74	0.773	6.82	0.42	-129.9	cloudy	5.20
1200	0.9	28.63	0.773	6.65	0.24	-124.3	cloudy	5.20
1203	1.35	28.64	0.773	6.68	0.20	-129.2	cloudy	5.20
1206	1.8	28.60	0.772	6.72	0.20	-137.6	cloudy	5.20

1210 Collect sample @ MW-42, no odor
1241 Setting up @ DMW-4, DTW = 6.60
Well pad was not pruned, overgrown
with shrubs, had to prune before sampling.

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
1300	0	29.15	0.664	7.44	3.09	163.3	clear	6.77
1303	0.45	28.42	0.667	7.35	0.79	109.3	clear	6.77

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Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
BN 1306 ~~1303~~	0.9	28.86	0.667	7.20	0.61	79.5	clear	6.79
1309	1.35	28.78	0.666	7.17	0.55	70.1	clear	6.79
1312	1.8	28.78	0.665	7.19	0.70	70.7	clear	6.80
1315	2.15	28.75	0.660	7.18	0.90	68.6	clear	6.80
1318	2.6	28.76	0.661	7.16	1.08	73.3	clear	6.81
1321	3.05 ~~2.9~~ BN	28.74	0.659	7.14	1.09	72.8	clear	6.81
1324	3.5 ~~BN~~	28.74	0.655	7.13	1.03	66.7	clear	6.81

1325 Collect sample @ DMW-4, no odor
1408 arrived @ MW-113, DTW = 15.99
Will collect ONE parameter & begin
Collecting sample in order of importance
(VOC, SVOC, metals, cyanide, Cr6+, methane)

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
1418	0	33.30	1.369	6.83	1.65	-143.8	dark gray	N/A

1420 Collect ~~VOC~~ BN VOA samples (x2) & ONE liter
Amber SVOC sample before well went dry
@ 17.67, (TD = 17.75)
1435 dump purge water at wastewater vent
1445 unload equipment @ trailer
1450 Return keys to guard, goof site to
get ice to pack.
1500 Back on site to pack cooler
1550 leaving site for the day. To FedEx.

98

Location: Puerto Rico Date: 6-5-12

Project/Client: CPCPRC

May / June Sampling BN/MR

1630 Arrive at FedEx to ship coolers.

1638 Leaving FedEx after shipping 4 sample coolers to Test America via FedEx airbill no. 5994 5990 7591

1645 Back at hotel off shift.

pm weather partly cloudy, hazy, 87°F, winds < 5mph

Elizabeth Shaw
6-5-2012

99

Location: Puerto Rico Date: 6-6-12

Project/Client: CPCPRC

May / June Sampling BN/MR

0530 M. Rumpf + B. Davis leave hotel and drive to CPCPRC site.

0615 Arrived at gas station to buy ice for the day.

0623 on-site. Sign in @ guard shack + pick up keys.

0626 at trailer to calibrate equipment and load up truck.

am weather partly cloudy, scattered showers, 77°F. Expected high 80's.

PCR sampling at 3 points along the "ditch" including soil samples.

daily tailgate: slips/trips/falls, heat; stay hydrated. Scattered showers - possible lightening. Heavy lifting - team lifts. Biological / wildlife.

YSI CAL 4.00 = 4.00 @ 20:23 7.00 = 7.0 @ 19:45
10.00 = 10.00 @ 20:35 ORP = 220.0 @ 20:01
Spec cond = 1413 @ 20:30 DO - 9.05 @ 20:37

0711 leave trailer, going to ditch + channel

0735 The keys they gave us won't unlock back gate to ditch.

0743 Security guard arrives w/ correct keys to open gate to ditch.

Location Puerto Rico Date 6-6-12

Project/Client CPCPRC

May/June Sampling BN/MR

0745 Setup on Ditch 3.

Time vol temp Cond pH DO ORP VIS WL

0830 BN ~~0~~ 29.05 0.576 7.09 4.22 99.6 clear N/A

0835 collect sample @ Ditch 3 (MS/MSD)

1009 Setting up at Ditch 2

Time vol temp Cond pH DO ORP VIS WL

~~1035~~ 1030 BN ~~0~~ 29.07 0.629 7.64 4.33 129.0 clear N/A

LATE ENTRY 0840 Channel 3 sample collected Channel 3 MS/MSD

1045 Channel 2 sample collected Channel 2 Dup

LATE ENTRY ~~1030~~ BN 1035 collected water sample @ Ditch 2.

1134 Setting up at Ditch 1 / Channel 1

Time vol temp Cond pH DO ORP VIS WL

1150 ~~0~~ 32.49 0.437 8.22 11.30 186.7 clear N/A

1155 collect sample @ Ditch 1 (DUP)

1155 collect sample @ Channel 1 By MR.

1240 Back @ site gate, waiting for guard to open gate.

1310 Gate opened back on site

1312 @ MW-113 for grab SVOC sample

1315 BN Setting up on MW-113 to collect SVOC grab sample. DTW = 15.99

Location Puerto Rico Date 6-6-12

Project/Client CPCPRC

May/June Sampling BN/MR

1315 Collect SVOC grab sample @ MW-113 very strong chemical odor

1330 BN ~~1320~~ dump purge water @ wastewater vault

1340 unload equipment at trailer

1350 return keys @ guard shack and leave site to buy ice for packing

1415 Back on site w/ ice. Packing coolers.

1500 leave site to drive to FedEx

1550 Arrive at FedEx. Shipped 4 cooler, 3 w/ water samples and 1 w/ sediment samples to Test America via FedEx air bill no. 8994 5940 7606

1620 pm weather partly cloudy, 87°F, winds @ 5 mph.

Off shift. Back at hotel.

6-6-12

Elizabeth [illegible]

Location: Puerto Rico Date: 6-7-12

Project Client: CPCPRC

May / June Sampling BN/MR

0530 M. Dumpy & B. Norris leave hotel and drive to CPCPRC.

0610 Arrive at gas station to buy ice

0622 on-site sign in @ guard shack & get keys

0625 Calibrate instrument & local equipment

Air weather 82°F, partly cloudy. Expected high 80s, possible showers.

daily tailgate slips/trips/falls, heat - stay hydrated, heavy lifting - team lift, biological/wildlife, possible rain showers in afternoon.

PDD New well-8, MW-166, DMW-2, MW-113

YSI CAL 4.00 = 4.00 @ 19.66 7.00 = 7.00 @ 19.70

10.00 = 10.01 @ 19.57 ORP = 219.9 @ 19.60

Spec cond = 1.413 @ 19.65

DO = 9.06 @ 20.35

0730 Setting up @ New well-8 DTW = 10.24

TD = 18.53 & made new sample tubing @ 19.41.

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
0751	0	27.26	1.780	6.91	1.62	-79.7	clear w/ particulates	10.44
0754	0.3	27.25	1.789	6.92	0.69	-123.3	clear w/ black particulates	10.46

Location: Puerto Rico Date: 6-7-12

Project Client: CPCPRC

May / June Sampling BN/MR

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
0757	0.6	27.36	1.805	6.94	0.54	-133.0	clear	10.46
0800	0.9	27.40	1.803	6.94	0.39	-136.1	clear w/ particulates	10.46
0803	1.2	27.49	1.754	6.94	0.34	-133.5	clear	10.46
0806	1.5	27.47	1.740	6.96	0.27	-143.6	clear	10.46
0809	1.8	27.57	1.536	6.96	0.25	-145.5	clear	10.46
0812	2.1	27.59	1.460	6.96	0.23	-146.9	clear	10.46
0815	2.4	27.61	1.461	6.97	0.20	-148.4	clear	10.46
0818	2.7	27.62	1.461	6.97	0.19	-149.6	clear	10.46

0820 Collect sample @ New well-8, water is clear w/ black particulates. Slight chemical odor

0859 Setting up on MW-113 to collect 1 parameter reading and collect metals, cyanide, Cr^{6+} and methane samples. DTW = 16.02

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
0905	0	30.70	1.348	6.87	1.22	-145.8	dark	N/A

0910 Collect sample @ MW-113 for metals, cyanide, Cr^{6+}, methane.

0924 dump purge water @ waste treatment vault

0945 Setting up @ DMW-2 DTW = 4.02

Time	Vol	Temp	Cond	pH	DO	ORP	Vis	WL
0959	0	29.71	1.031	6.75	2.40	-47.4	clear	4.03

Location: Puerto Rico Date: 6-7-12
Project Name: CPCPRC
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Time	WL	temp	cond	pH	DO	ORP	VIS	WL
1002	0.45	29.62	1.047	6.72	1.19	-62.6	clear	4.03
1005	0.9	29.64	1.050	6.72	0.95	-68.3	clean	4.03
1008	1.35	29.59	1.053	6.72	0.81	-72.0	clean	4.03
1011	1.8	29.45	1.052	6.72	0.69	-74.3	clean	4.05
1014	2.15	29.41	1.052	6.72	0.57	-72.9	clear	4.05
1017	2.6	29.37	1.052	6.71	0.55	-73.5	clean	4.05
1020	3.05	29.39	1.052	6.71	0.54	-72.2	clean	4.05

1025 collect sample @ DMW-2, Chemical odor.
1054 Setting up @ MW-144, DTW = 5.10

Time	WL	temp	cond	pH	DO	ORP	VIS	WL
1107	~~0~~	29.95	36.96	7.25	1.76	-265.2	clear	6.12
1110	0.3	29.77	36.82	7.22	0.21	-296.5	clean	6.56
1113	0.6	29.82	36.81	7.21	0.17	-295.8	clean	6.93
1116	0.9	29.83	36.77	7.21	0.17	-300.9	clean	7.37
1119	1.2	29.84	36.74	7.20	0.18	-291.2	clean	BN 7.63

1120 Collect sample @ MW-166, slight foul odor.
1203 @ MW-126 DTW = 7.07
1209 @ RW-T DTW = 5.40
1216 @ RW-J DTW = 11.38
1222 dump purge water @ waste treatment vault
1223 All wells sampled, all water levels measurements complete.

Location: Puerto Rico Date: 6-7-12
Project Name: CPCPRC
May / June Sampling BN/MR

1225 At trailer doing inventory, cleaning, general housekeeping of sampling supplies. Got bar YSI multi-meters, water meter, and purge pump ready to ship out. Accounted for Power converter, Ex lawn chairs, 50' extension chord, tool kit (wrench set), fire extinguisher, pruners, shovel. Also inventoried PPE, bottles, packing supplies, chemicals, paperwork, coolers.
1440 Leave site to get ice for packing. Returned keys to guard.
1455 Back on site to pack coolers
1530 Done packing ~~[illegible]~~ ~~Contents of packing tree~~ ~~2 tons~~ BN
1540 Back @ trailer to drop off packing supplies and check out with Hector.
1550 Off-site. Driving to FedEx.
1630 At Fed Ex. Shipped 2 coolers to Test America via FedEx Airbill no. 8994 5990 7617
1638 Leaving FedEx.

Location: Puerto Rico Date: 6-7-12

Project / Client: CRCPRC

Mon / June Sampling BW/MR

1640 Back @ hotel.
Off shift - PM weather 91°F,
sunny, winds ~5mph

Elizabeth J. Norman
6-7-12

Location: Date:

Project / Client: