

October 29, 1992

Ms. Caroline Kwan, Project Manager
U.S. Environmental Protection Agency
26 Federal Plaza, Room 737
New York, NY 10278

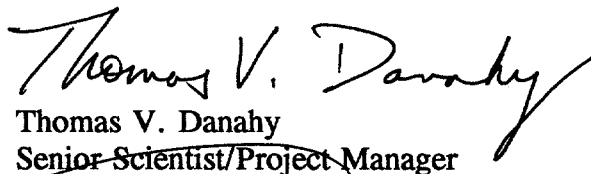
Re: Anticipated Schedule for Pumping Tests
Tutu Service Station Investigation
St. Thomas, U.S. Virgin Islands

Dear Ms. Kwan:

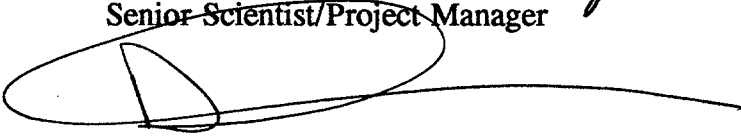
Table 1 enclosed provides a detailed schedule for the pumping tests to be performed at the above referenced site. Due to field conditions, minor delays or modifications may be necessary. The on-site USEPA representative will be kept advised of any scheduling changes. If you have any questions, please call.

Sincerely,

GERAGHTY & MILLER, INC.



Thomas V. Danahy
Senior Scientist/Project Manager



Daniel A. Nachman
Project Director/Project Officer

c: Ana Gloria Ramos - TEIC
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Sally Odland, CDM

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Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
Thurs., Oct. 29, 1992 C. Moffatt R. Ponciano Soil Tech	Finalize pump installation at MW-6D and piping to treatment system. Short 10 to 20 minute test of pump; set flowrate to 8 gpm. Set-up data recorders to record overnight; readings at 30 minute intervals.
Fri., Oct. 30, 1992 C. Moffatt R. Ponciano Soil Tech	7:30-8:30 a.m. - Collect water-level measurements. 8:30-9:30 a.m. - Re-set data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals. 10:00 a.m. (or a few seconds after 10:00 a.m. but not before) - Start Step Test at MW-6D; Step 0 at 8 gpm. Note steps are numbered 0 through 3 (4 steps). 11:00 a.m. - Begin Step 1 at MW-6D at 10 gpm. 12:00 (noon) - Begin Step 2 at MW-6D at 12 gpm. 13:00 - Begin Step 3 at MW-6D at 14 gpm. <u>Sample influent to treatment system for field GC and lab analysis.</u> 14:00 - End of Step Test. Set pump rate to 8 to 14 gpm (depending on drawdown) for Monday's test. Turn pump off. Record recovery. <u>Sample treatment effluent for field GC and lab analysis.</u> 15:00 - End of recovery data collection. Remove/download data recorders. Collect water-level measurements at data logger locations. 16:00 - 17:00 - Collect complete round of water-levels. Reset data recorders; linear scale, 30 minute intervals for pre-pumping measurements over Saturday and Sunday.

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
Mon., Nov. 2, 1992 C. Moffatt R. Ponciano A. Colberg W. Morales D. McGregor Soil Tech	7:30-8:30 - Collect complete round of water-levels. 8:30-9:30 - Reset data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 5-minute intervals. 10:00 (or a few seconds <u>after</u> 10:00) - Start 72-hour continuous rate pumping test at MW-6D. Pump rate (between 8 to 14 gpm) should be preset based upon Friday's step test. Take manual measurements at pumping well for plotting of data. 11:30 - <u>Sample influent to treatment system for field GC and lab.</u> 12:00 - <u>Sample effluent for field GC and lab.</u> <u>Continue to collect influent and effluent samples for field GC every 2 hours.</u> Measure <u>complete</u> round of water-levels (including data recorders with drop pipes and non-date recorder locations) on an hourly basis until 14 hours (12:00 midnight) into pump test. After 14 hours, measure complete rounds every 2 hours.
Tues., Nov. 3, 1992 C. Moffatt R. Ponciano A. Colberg D. McGregor (Soil Tech not onsite)	10:00 - Twenty-four hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> Evaluate data plotted from pumping well for delayed yield. If delayed yield is not present, stop test and record recovery. If possible, have recorder start new step just prior to turning pump off.
Wed., Nov. 4, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	10:00 - Forty-eight hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> If delayed yield is not present, stop test and record recovery.

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
Thurs., Nov. 5, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	10:00 - Seventy-two hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> Stop test and record recovery. 14:00 - Measure water level at MW-6. Remove MW-6 data recorder. 14:00 - 15:00 - Finalize pump installation at MW-6 and piping to treatment system. 16:00 - Short 10 to 20 minute test of pump; set flowrate to 2 gpm. Set-up data recorders to record overnight; readings at 30 minute intervals.
Fri., Nov. 6, 1992 C. Moffatt R. Ponciano Soil Tech	7:30-8:30 a.m. - Collect water-level measurements. 8:30-9:30 a.m. - Re-set data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals. 10:00 a.m. (or a few seconds after 10:00 a.m. but not before) - Start Step Test at MW-6D; Step 0 at 2 gpm. Note steps are numbered 0 through 3 (4 steps). 11:00 a.m. - Begin Step 1 at MW-6D at 4 gpm. 12:00 (noon) - Begin Step 2 at MW-6D at 6 gpm. 13:00 - Begin Step 3 at MW-6D at 8 gpm. <u>Sample influent to treatment system for field GC and lab analysis.</u>

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
	14:00 - End of Step Test. Set pump rate to 2 to 8 gpm (depending on drawdown) for Monday's test. Turn pump off. Record recovery. <u>Sample treatment effluent for field GC and lab analysis.</u> 15:00 - End of recovery data collection. Remove/download data recorders. Collect water-level measurements. 16:00-17:00 - Reset data recorders; linear scale, 30 minute intervals for pre-pumping measurements over Saturday and Sunday.
Mon., Nov. 9, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	7:30-8:30 - Collect water levels. 8:30-9:30 - Reset data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals. 10:00 - Start 24-hour continuous rate pumping test at MW-6. Pump rate should have been preset on Friday (between 2 to 8 gpm). 11:30 - <u>Sample influent to treatment system for field GC and lab analysis.</u> 12:00 (noon) - Sample effluent for field GC and lab analysis. <u>Continue to collect influent and effluent every 2 hours for field GC analysis.</u> Measure complete round of water-levels (including data recorders with drop pipes and non-data recorder locations) on an hourly basis until 14 hours (12:00 midnight) into pump test. After 14 hours measure complete rounds every 2 hours.

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
Tues., Nov. 10, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	9:00 - <u>Sample influent and effluent for field GC and lab analysis.</u> 10:00 - End of 24-hour test. If possible "step" recorder to record recovery. Stop pump and record recovery. 14:00 - Check recovery. If recovery is equal to or greater than 85 percent complete, remove data recorders. Collect full round of water-level measurements.

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