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Contributions of organophosphorus pesticides from residential land uses during dry and wet weather

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DISCLAIMER

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The statements and conclusions in this report are solely those of the authors. The mention of commercial products, their source, or their use in connection with material reported herein is not to be construed as actual or implied endorsement of such products.

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EXECUTIVE SUMMARY

Diazinon and chlorpyrifos are commonly used organophosphorus (OP) pesticides in agricultural and urban watersheds. Significant concentrations of OP pesticides have been measured in receiving waters downstream from applications of OP pesticides. Unlike the agricultural watersheds, however, OP pesticides are not well-regulated in urban watersheds and are commonly used in and around residential and other urban land use areas. The lack of regulation is due, in part, to an incomplete understanding of the sources, runoff characteristics, and fate in urban environments. The goal of this study was to quantify the contribution of diazinon and chlorpyrifos in wet and dry weather runoff from residential land uses. In addition, two sub-objectives were identified to help understand and manage contributions of these pesticides from urban watersheds. The first sub-objective attempted to quantify the effectiveness of public education versus a technology-based best management practice (BMP) for controlling OP pesticide contributions from residential land uses during dry weather. The second sub-objective attempted to quantify the relationship between rainfall characteristics and OP pesticide concentrations during wet weather runoff from residential land uses.

To accomplish these objectives, three similar neighborhoods were sampled three days, every other week, between December 2000 and December 2002. In June 2001, part way through the study, two different interventions of BMPs were applied. An educational BMP was applied in one neighborhood, the technology + education BMP was applied in a second neighborhood, and the third was left untouched and used as a control. The education BMP consisted of an information packet, plus monthly reminders of ecologically sound irrigation, herbicide, and pesticide practices. The technology-based BMP consisted of remotely-controlled sprinkler timers that varied the timing and frequency of irrigation based on local weather data. Four wet weather events were sampled by targeting 10 individual grab samples per event representing rising, peak, and receding flows of the hydrograph. In all, 465 dry weather and 120 wet weather samples were collected

The results and conclusions can be summarized as:

- Mean concentrations of OP pesticides were typically greater during dry weather than wet weather at all three neighborhoods. Mean dry weather concentrations ranged from 20 to 572 ng/L chlorpyrifos and from 1,031 to 1,726 ng/L diazinon. Mean wet weather concentrations ranged from 6 to 156 ng/L chlorpyrifos and from 685 to 1,812 ng/L diazinon.

- Temporal plots of OP pesticide concentrations during dry weather did not indicate any seasonal patterns, nor was there a noticeable change in concentration following the initiation of the technological or educational BMPs.

- There was substantial variability in OP pesticide concentrations both within and among storm events at all three neighborhoods. Event mean concentrations

ranged from 3 to 250 ng/L chlorpyrifos and from 183 to 28,640 ng/L diazinon. At least part of the variability in diazinon concentrations was correlated to rainfall quantity and duration.

- Mass emissions of diazinon and chlorpyrifos during wet weather exceeded emissions during dry weather by roughly an order of magnitude. This was a function of substantially more volume during storm events than during dry weather.

- Concentrations of OP pesticides from the test neighborhoods appeared high relative to other residential land uses in nearby watersheds and relative to water quality thresholds recommended by the California Department of Fish and Game.

- Diazinon and chlorpyrifos are currently being phased out for indoor and outdoor residential uses. This study began prior to the onset of the phase out and can serve as a benchmark to assess reductions in these OP pesticide concentrations over time.

INTRODUCTION

The organophosphorous (OP) pesticides diazinon (*O,O*-diethyl-*O*-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate) and chlorpyrifos (*O,O*-diethyl-*O*-(3,5,6-trichloro-2-pyridyl) phosphorothioate) are toxic to a wide variety of non-target aquatic organisms including fish and invertebrates (Menconi et al. 1994a, 1994b). OP pesticide usage in California watersheds has migrated into ambient surface waters and resulted in toxicity to the freshwater cladoceran *Ceriodaphnia dubia* (deVlaming et al. 2000) and the marine mysid *Mysidopsis bahia* (Lee et al. 1999). The ambient toxicity resulting from OP pesticides in California receiving waters has led to 102 waterbody/segment being placed on the 2002 §303d list for diazinon and chlorpyrifos by State regulators.

In order for watershed managers and regulators to effectively reduce OP pesticides in receiving waters, there is a need to identify and assess sources of diazinon and chlorpyrifos. Large quantities of OP pesticides are applied to agricultural and urbanized watersheds in California every year. An estimated 387 metric tons (mt) of diazinon and another 927 mt of chlorpyrifos were applied in 1999 for agricultural, landscape maintenance, and exterior pest control uses based upon records kept by the Department of Pesticide Regulation (DPR 2000). Additional significant users of OP pesticides are residential homeowners, commercial, and industrial facilities for exterior pest control. In southern California, where more than 17 million people reside and work, undocumented use of OP pesticides has the potential to be enormous. Unfortunately, there are no estimates of diazinon or chlorpyrifos usage during these applications although these pesticides can be purchased over-the-counter at most home improvement stores. Over the counter purchases in the San Diego Creek watershed (a relatively small watershed of 290km^2) are estimated at 4.5 and 0.3 mt for diazinon and chlorpyrifos, respectively (Wilen 2001)

Contributions of OP pesticides from undocumented home use applications or documented pest control operators can occur during wet and dry weather when precipitation or over-irrigation results in transport to receiving waters. This transport mechanism is enhanced due to the large proportion of impervious surfaces in urban environments. However, neither wet or dry weather contributions of OP pesticides from residential land uses have been well-documented. Some wet weather contributions have been measured from urban watersheds in the San Francisco Bay region (Bailey et al. 2000) and the Los Angeles area (Schiff and Sutula 2002). Both of these studies identified concentrations of diazinon at sufficient concentrations to induce aquatic toxicity in non-target organisms. However, there is a complete lack of published data on dry weather contributions of diazinon and chlorpyrifos from residential land uses.

The objective of this study was to quantify the contribution of diazinon and chlorpyrifos in wet and dry weather runoff from residential land uses. In addition, two sub-objectives were identified to help understand and manage contributions of these pesticides from urban watersheds. The first sub-objective attempted to quantify the effectiveness of public education versus a technology-based potential best management practice (BMP) for controlling OP pesticide contributions from residential land uses during dry weather.

The second sub-objective attempted to quantify the relationship between rainfall characteristics and OP pesticide concentrations during wet weather runoff from residential land uses.

This project builds upon a larger study focused on assessment of residential runoff contributions of nutrients, trace metals, bacteria, and toxicity (Berg, et al 2003). The two studies are similar in their design to assess the effectiveness of BMPs. The two studies differ in that this project was designed around dry and wet weather, while the larger study only focused on dry weather. The larger study was a collaborative project among the Orange County Water District, the Irvine Ranch Water District, and the Regional Water Quality Control Board. While these water management agencies are concerned about water quality, an equally important goal was to assess water conservation. This study added two additional participants, including the Orange County Public Facilities and Resources Department and the California Department of Pesticide Regulation, whose primary goal was to assess OP pesticide contributions.

METHODS

The concentration of OP pesticides in wet and dry weather runoff was quantified from three replicate residential neighborhoods. Each of the neighborhoods was relatively similar in age, size, orographics, and imperviousness. Runoff from each of the neighborhoods could be isolated and sampled at a single point from within their municipal separate storm sewer system enabling each neighborhood to be treated as an individual treatment.

In order to evaluate the effectiveness of potential BMPs, one of the neighborhoods received an intensive public education campaign, the second neighborhood received public education and the technology-based BMP, and the third neighborhood received neither education nor technology and served as a control.

Dry weather samples were collected three days a week, every other week, starting in January 2000 until June 2001. At this time, the technology and educational BMPs were implemented and sampling continued as before until November 2002. The dry weather OP data were used to estimate concentrations from each of the three neighborhoods. By comparing concentrations before and after BMP implementation, we can assess the effectiveness of these management actions.

A total of four storm events were collected at each neighborhood during the 2000/2001 and 2001/2002 wet seasons. Ten grab samples per neighborhood were targeted during each event, at time intervals of 15 to 30 minutes, depending upon the storm duration. The goal was to capture water quality over the course of the entire event including rising, peak, and tailing storm flows. Multiple samples per storm enabled comparisons of:

1) average concentrations and fluxes during an event to compare among neighborhoods; 2) comparison of concentrations within a neighborhood among storm events, and 3) comparison of concentrations within a neighborhood during a storm event.

Technology-based and Public Education BMPs

The technology-based BMP consisted of an evapotranspiration (ET) controller that is described in detail elsewhere (Berg et al, 2003, Appendix A). This BMP is similar to most automatic sprinkler timers available at home improvement stores and nurseries, but with the capacity to receive radio signals that will alter sprinkler timing based on current weather conditions. If the weather is hot and dry, the radio signals call for longer or more frequent irrigation. If the weather is cool and moist, such as recent precipitation, the radio signals call for shorter or less frequent irrigation. For this study, the existing sprinkler timers that are set manually by the homeowner were replaced with the radio controlled ET controller systems. Trained technicians were used to ensure successful installation; ET controller requires programming for each valve including area (size of yard or planter per valve), soil type (clay, sand, etc.), and landscape type (turfgrass, shrubbery, etc.). The remaining irrigation system was unchanged, including piping and sprinkler head configuration.

Public education during this study consisted of an initial informational packet containing three items. The first item was an introductory letter that described the purpose of the packet. The second item was a booklet with irrigation, fertilization and weed and pest control information. The centerfold of the booklet was a month-by-month guide to irrigating, fertilizing and pesticide application suitable for posting near their sprinkler timer. Third, each homeowner was supplied a soil probe for measuring the water content of their landscaped soils. In addition to the initial packet, monthly reminders were mailed to each homeowner including landscape maintenance tips such as irrigation system, water schedule, fertilizing, and weed and insect control. Suggested sprinkler run times (for the non-ET sprinkler neighborhood) and fertilizer or pesticide application usage, including non-toxic alternatives, were also provided in the monthly newsletter.

Residential Neighborhoods

The three neighborhoods were located within a three mile radius in Irvine, CA (Figure 1). The selection criteria for the neighborhoods included similarity in: 1) age of neighborhood (approximately 20 years old); 2) primary land use (single family residential); 3) irrigation management factors (precipitation rate, soil type, plant type, slope and sun exposure); and 4) proximity to radio signal for ET controller. Although each of the three neighborhoods met the selection criteria, there were some differences worth noting (Table 1). First, the two treatment neighborhoods were larger, up to twice as large as the control neighborhood. Second, the two treatment neighborhoods were more impervious, up to 50% as much impervious area, as the control neighborhood. Third, the two treatment neighborhoods had greater proportions of landscaped common areas than the control neighborhood. These three factors could contribute to increased flows.

The treatments were not uniformly applied to all homeowners in either the technology + education or education only neighborhoods. In the case of technology + education, roughly one third of the pervious area actually retrofit their sprinkler systems. These homeowners, condominium complexes, school and city landscaped areas were recruited by trained personnel. In order to keep the relative percentages approximately the same between treatment neighborhoods, homeowners representing roughly 30% of the pervious area were selected to receive the education materials in the education only neighborhood. These homeowners were selected at random.

Sampling

Each of the three neighborhoods were hydrologically self-contained and drained to a single underground pipe unique to each neighborhood. At each of these three locations, samples were collected for flow and water quality. Stage (water depth) and velocity were recorded at 5 min intervals using an ultrasonic height sensor mounted at the pipe invert and a velocity sensor mounted on the floor of the pipe. Flow was calculated as the product of velocity and wetted cross-sectional area as defined by the stage and pipe circumference. Despite the relatively continuous measurement of flow, many of the flow measurements were excluded due to faulty readings. These faulty readings were the result of blocked or broken sensors, uncalibrated meters, and/or out of range records. Synoptic flow and water quality measurements were only available for two sites over the course of the entire study (i.e. before and after intervention), including the technology + education and education only sites. Flow measurements at the time of water quality sampling for the control site were considered faulty and discarded. Similarly, flow data was not available for all sites during all storms. The lack of flow data does hinder the ability to estimate mass emissions form the residential neighborhoods for all time periods of interest.

Grab samples for water quality were collected just downstream of the flow sensors in the early morning on Tuesdays, Thursdays, and Sundays every other week starting in January 2000 until November 2002. Presurvey evaluations of daily flow did not indicate significant changes in flow among weekdays or weekends, therefore both weekend and weekdays were sampled. In all, 465 dry weather samples were collected. Samples were collected using peristaltic pumps and pre-cleaned Teflon tubing. Samples were placed in individual pre-cleaned jars, placed on ice, and transported to the laboratory within one hour. Each sample was analyzed for diazinon and chlorpyrifos. Water quality sampling during wet weather were collected similar to dry weather samples, except for the sampling was focused on individual storm events. These events occurred on April 7, 2001, November 29, 2001, November 29, 2002, and December 16, 2002. Storm sampling targeted events where precipitation was forecast to be $\geq$ 0.63 cm and there was a minimum of 72 h antecedent rainfall. In all, 120 wet weather samples were collected.

Chemical Analysis

Water samples were measured for diazinon and chlorpyrifos (reporting level = 20 ng/L). Water samples were extracted by passing 1L of sample through a preconditioned (ethyl acetate followed by methanol) 90 mm 3M C18 solid phase extraction (SPE) disk. Analytes were eluted from the SPE disk using ethyl acetate. The eluate was dried over sodium sulfate and rotoevaporated at 35 °C to 1ml with solvent exchange to hexane. The hexane extract was then concentrated under nitrogen to 0.5 ml for analysis.

Gas chromatographic (GC) analyses were performed using a Varian 3800 GC equipped with DB-XLB capillary column (60 m x 0.32 mm x 025 µm.) and a Varian Saturn 2000 Ion Trap. Helium was used as a carrier gas at constant flow of 1.2 ml/min. Samples were fortified with 1-Bromo-2-nitrobenzene as an internal standard and injected in splitless mode in an injector at 250 °C. The oven temperature profile was: 50 °C for 1 min; 50-100 °C at 25 °C/min; 100-310 °C at 10 °C/min for 7 min.

Data Analysis

Data analysis focused on three areas: 1) comparison of mean dry and wet weather concentrations of diazinon and chlorpyrifos in each of the three neighborhoods; 2) dry weather comparisons; and 3) wet weather comparisons. The comparison of mean dry and wet weather concentrations of diazinon and chlorpyrifos in each of the three neighborhoods consisted of t-tests of combined concentration data from the dry weather sampling versus the wet weather concentration for each neighborhood.

Dry weather comparisons consisted of three elements. The first dry weather element examined temporal trends in diazinon and chlorpyrifos concentrations over the course of the study. Average monthly concentrations were plotted by neighborhood. All of the data were examined for seasonality and then tested by regression for overall increasing or decreasing levels. The second dry weather element was a comparison of diazinon and chlorpyrifos concentrations between the three neighborhoods prior to intervention of the education or technology-based BMPs. This step was conducted by using analysis of variance (ANOVA) and Tukey's post hoc testing for differences among neighborhoods and concentrations (Zar 1984). All data were tested for normality and homogeneous variance prior to testing. The goal was to determine if there were significantly different concentration being discharged from each of the three test neighborhoods. The third dry weather element examined the effect of the BMPs by using a t-test (Zar 1984) of diazinon or chlorpyrifos concentration before versus after BMP intervention within a neighborhood. The comparisons were made for the education only, technology + education, and difference between the technology + education and education only neighborhoods. Each of these comparisons were normalized to the control neighborhood on the day of sampling prior to t-testing.

Wet weather comparisons consisted of four elements. The first wet weather element examined the storm characteristics of each of the sampled events. These characteristics included rainfall quantity, duration and intensity, as well as runoff volume, peak flow, and average flow. The second wet weather element compared diazinon and chlorpyrifos

concentration among storms for each neighborhood. These comparisons were evaluated using event mean concentrations (EMCs). Since we did not have flow data to accompany every storm event in every neighborhood, we calculated EMCs as the arithmetic mean of all samples within a given event. Nondetectable concentrations were treated as zero. The comparison of EMCs among neighborhoods and constituents was conducted using ANOVA and Tukey's post hoc test. The third wet weather element examined the relationship between storm characteristics and EMCs for individual events. This relationship was quantified using a Spearman Rank correlation testing procedure. The fourth wet weather element examined within storm variability for diazinon or chlorpyrifos at each neighborhood. This was accomplished by plotting flow and concentration over time for each event and neighborhood.

RESULTS

Mean dry weather concentrations of OP pesticides were typically higher during dry weather than wet weather (Table 2). Mean concentrations of chlorpyrifos at all three neighborhoods were higher during dry weather than wet weather. Mean concentrations of diazinon at two of three neighborhoods were greater during dry weather than wet weather. Mean concentrations ranged from 1.5- to 8-fold greater during dry weather compared to wet weather, depending upon the neighborhood. The overall variability in dry and wet weather concentrations of chlorpyrifos and diazinon was relatively high, however, and this precluded significant differences among wet and dry weather samples within a neighborhood. For example, coefficients of variation (standard deviation relative to the mean) were as high as 1,100% and averaged between 500% and 300% for chlorpyrifos and diazinon, respectively. Only mean chlorpyrifos concentrations at the control neighborhood were significantly different between wet and dry weather.

The mean dry weather flux and mass emission of diazinon was generally higher and more consistent than either the dry weather flux or mass emission of chlorpyrifos from the three residential neighborhoods (Table 3). For example, the mean flux of diazinon ranged one order of magnitude during dry weather among the three neighborhoods (2.0 to 5.8 ng/km^2/day) compared to chlorpyrifos that ranged two orders of magnitude (0.05 to 1.1 ng/km^2/day). Similarly, the average mass emission of diazinon was within a factor of two among the three neighborhoods (1.0 to 1.9 ng/day) compared to chlorpyrifos that ranged by a factor of 30 (0.02 to 0.6 ng/day).

Dry Weather Comparisons

There were no significant differences in water quality during dry weather among sites prior to BMP intervention (Table 4). The education neighborhood had the greatest mean concentration of chlorpyrifos, roughly 2- to 3-fold greater than the mean concentration at the technology + education or control neighborhoods, respectively. The control neighborhood had the greatest mean concentration of diazinon, roughly 2- to 3-fold

greater than the mean concentration at the technology + education or education neighborhoods, respectively.

OP pesticide concentrations were highly variable over time during the study period (Figure 2). Temporal plots of monthly mean concentrations demonstrated that there was no seasonal trend and no overall trend with time. Most importantly, there was no distinct increase or decrease following BMP intervention in June 2001. There were, however, large spikes in concentrations. For example, the mean monthly concentration of chlorpyrifos peaked in July 2001, exceeding 10,000 ng/L at both the education and technology + education neighborhoods, but not in the control neighborhood.

Pre- and post-BMP pairwise testing revealed that the dry weather concentrations of chlorpyrifos significantly increased following intervention (Table 5). These significant differences were observed in the education only neighborhood, and the difference between the technology + education minus education neighborhood, relative to the control neighborhood. These statistically significant differences were the result of the large spike in chlorpyrifos concentration in the education and technology + education neighborhoods during July 2001. Since the spike was not observed in the control neighborhood, the net difference in concentrations between controls and treatments increased following the intervention. Removal of the abnormally high sample in the education and technology + education resulted in no significant difference among treatment effects relative to controls before intervention compared to after intervention. In fact, mean concentrations before and after intervention were within a factor of two after the removal of the abnormally high sample.

Dry weather flux (or mass) of OP pesticides followed similar patterns as the concentration data over the study period. There were no systematic increases or decreases in the flux of diazinon or chlorpyrifos. There were, however, periodic spikes in flux that were commensurate with spikes in concentration (i.e. July 2001, Figure 2). This is because ranges in concentration varied nearly two orders of magnitude while changes in flow rates varied by only a factor of two. The changes in concentration, thus, led to significant differences in mean pre- and post-intervention flux rates (Table 4). These significant differences were only observed for chlorpyrifos and, like differences in concentrations, were only observed in the education only and in the difference between technology + education and education only neighborhoods.

Wet Weather Comparisons

The four storms sampled as part of this study had a range of rainfall characteristics (Table 6). Rainfall quantities ranged three-fold, while rainfall intensity ranged by a factor of two. Antecedent rainfall similarly varied, ranging from two days to nearly three weeks. A subset of 9 site-events had associated flow data; 3 site events had faulty flow data and had to be discarded. Only the control neighborhood had measurable flow data during all four storm events. Of the remaining flow measurements, the education only neighborhood generally had the greatest runoff volumes and peak flows.

OP pesticide concentrations varied both among storms and among neighborhoods (Table 7). For example, EMCs of chlorpyrifos ranged two- to five-fold among storms within each of the respective neighborhoods. EMCs for diazinon had even greater variability among storms ranging between two- to 20-fold differences within a neighborhood. The education neighborhood consistently had the highest EMC of chlorpyrifos during individual storm events while the control neighborhood consistently had the lowest EMC. No single neighborhood consistently had the highest or lowest EMC of diazinon.

Rainfall volume and duration were the only storm characteristics that were significantly correlated to EMCs of diazinon (r^2 = 0.34 and 0.37, respectively) (Figure 3). Diazinon concentrations generally increased with increasing rainfall volume and duration, but the trend was not consistent within single neighborhoods. Therefore, the predictive ability of rainfall volume and duration to estimate diazinon concentration is limited. Chlorpyrifos concentrations were tested and no correlation was found with any of the storm characteristics measured.

Variability of within storm concentrations of diazinon did not reveal any predictable patterns (Figure 4, Appendix A). Two storms at the control site (Apr 7 and Nov 29) indicated a tail flush, where concentrations were greatest on receding flows. One storm at the control site (Dec 16) indicated a first flush of diazinon concentration. One storm at the control site (Nov 12) had a concentration maxima mid-event, following peak flow. Within storm concentrations of chlorpyrifos were similarly unpredictable. Three events (Nov 12, Nov 29, Dec 16) were characterized by largely non-detectable concentrations. The fourth event (April 7) at the control site was characterized by largely variable chlorpyrifos concentrations. In only one storm (Nov 12) did the same sample (at 17:30) contain the maxima of chlorpyrifos and diazinon.

Mass emission and flux of OP pesticides among storm events was, like concentrations, highly variable (Table 7). No emissions or flux were able to be calculated for several events due to a lack of flow data. Of those storms where flow data was available, the education site had the greatest emissions of both chlorpyrifos and diazinon. This may be due, in part, to the larger size of the education catchment. Unlike concentration, however, there was no correlation with any of the rainfall characteristics and mass emission or flux for either of the OP pesticides evaluated.

DISCUSSION

It appears that mass emissions of both diazinon and chlorpyrifos are greater during wet weather than during dry weather in the residential neighborhoods sampled as part of this study. For example, the wet weather flux of chlorpyrifos was measured in 10^2 mg/km^2/storm while dry weather flux was measured in units of 10^0 mg /km^2/day. Assuming an average wet year of 12 storms, and that our storms were representative of these events, the mass emissions during wet weather would be approximately 4,500 mg of chlorpyrifos and 55,000 mg of diazinon from one of our neighborhoods. In contrast,

the remaining 353 dry days would generate approximately 250 mg chlorpyrifos and 8,000 mg of diazinon from one of our neighborhoods. Interestingly, concentrations were generally greater in dry weather than wet weather. Instead, the disparity in emissions during the different runoff regimes was attributable to differences in runoff volume. Wet weather generated tremendous volumes, up to three orders of magnitude more flow on average, during storm events compared to dry weather.

Wet weather concentrations of diazinon from the neighborhoods measured in this study appear high relative to residential land uses in nearby locations (Figure 5). Schiff and Sutula (2002), using a similar approach to wet weather sampling and analysis in this study, estimated mean diazinon concentrations in residential neighborhoods from Los Angeles County that were an order of magnitude lower than mean wet weather diazinon concentrations in this study. In fact, concentrations from residential neighborhoods from this study were greater than any other land use measured in Los Angeles County except mixed agriculture. Similarly, the concentrations of chlorpyrifos were higher in this study than in Los Angeles County. While mean wet weather chlorpyrifos concentrations measured herein ranged from 5 to 155 ng/L among the three neighborhoods, concentrations in Los Angeles County were routinely below detection limits (20 ng/L), regardless of land use. The discrepancy in wet weather concentrations between the two counties is, at this point in time, unknown.

This study was unable to find large, significant reductions in dry weather concentrations as a result of education and/or technology. This may indicate that the technology and/or education are inefficient for improvements in water quality. Equally as important, however, was the absence of meaningful increases in concentrations. Of the concentrations that did show significant increases, each could be explained by highly variable spikes in concentrations reminiscent of isolated entries to the storm drain system as opposed to ongoing chronic inputs or the effects of best management practices evaluated in this study. The isolated entries to the storm drain system could be the effect of illegal discharges (i.e. residential dumping) or inappropriate application (i.e. immediately prior to irrigation). Since no source or application evaluation was conducted as part of this study, it is difficult to surmise the exact route of the unusually high OP pesticides concentrations found in our dry weather runoff samples.

If significant changes did occur, our study design may not have detected these changes due to two factors. First, the variability in concentrations within and between sites is naturally high and our study simply collected too few samples. After taking into account the variability and relative differences in mean concentrations, we used *post-hoc* power analysis to estimate our ability to detect meaningful differences. Assuming that our sampling yielded the true mean and variance structure that actually existed at the three sites, we had sufficient power to detect the differences we observed in diazinon concentrations during this study had they really existed. Now that we know the variance structure of dry weather runoff from these neighborhoods, alternative sampling designs to detect differences in concentration or load may be devised and improved to answer specific questions. For example, managers may wish to assess if reductions occur as the use of diazinon and chlorpyrifos decrease as a result of the re-registration process and

lack of public availability of these pesticides. To answer this question, which may take up to five years, a focused temporal design may be more appropriate whereby more effort is allocated into specific time periods rather than distributing effort over the entire time period.

The second factor that could have hindered our ability to detect meaningful differences in water quality is that the technology and education treatments were applied at the spatial scale of individual homes, while our study design sampled at the neighborhood scale. This problem was exacerbated in this study because only a fraction (approximately one-third) of the homes within the neighborhoods we sampled had the technological or educational treatments. Therefore, the treatments were effectively diluted, decreasing our ability to detect these differences in water quality. Future studies may wish to either increase the relative proportion of participating homeowners or, alternatively, reduce the spatial scale to achieve samples from individual parcels.

Concentrations measured during both dry and wet weather were frequently above thresholds expected to induce aquatic toxicity. A threshold of 80 ng/L diazinon has been recommended by the California Department of Fish and Game for acute toxicity to aquatic life. Applying this threshold to the current study indicated that between 89 and 98% of all dry weather samples, depending upon neighborhood, exceeded this threshold (Figure 6). All but three samples exceeded this threshold during wet weather. In our companion study, toxicity tests using the mysid *Mysidopsis bahia* on dry weather runoff samples indicated that mysids are sensitive to dry weather runoff from these residential neighborhoods (Berg et al, 2003). Toxicity was observed nearly every month tested between December 2000 and June 2002 in at least one of the neighborhoods we sampled during this study. While no toxicity identification evaluations were conducted, mysid toxicity was significantly negatively correlated to diazinon concentrations.

REFERENCES

Bailey, H.; Deanovic, L.; Reyes, E.; Kimball, T.; Larson, K.; Cortright, K.; Conner, V.; Hinton, D. 2000. Diazinon and chlorpyrifos in urban waterways in northern California, USA. *Environmental Toxicology and Chemistry* 19:82-87

Berg, J., T. Chesnutt, K. Schiff, T. Hunt, D. Jimenez, and D. Diamond. 2003. Residential runoff reduction study. Orange County Water District, Fountain Valley, CA.

DeVlaming, V.; Connor, V.; DiGiorgio, C.; Bailey, H.; Deanovic, L.; Hinton, D. 2000. Application of whole effluent toxicity test procedures to ambient water quality assessment. *Environmental Toxicology and Chemistry* 19:42-62

Lee, G.F., S. Taylor, and D. Neiter. 1999. Review of Existing Water Quality Characteristics of Upper Newport Bay, Orange County, California, and its Watershed and Results of Aquatic Life Toxicity Studies Conducted during 1997-98 in the Upper

Newport Bay Watershed. Prepared for California State Water Resources Control Board, Santa Ana Regional Water Quality Control Board, and Orange County Public Facilities and Resources Department. Lee and Associates. Madero, CA.

Menconi, M.; Cox. C. 1994. Hazard assessment of the insecticide chlorpyrifos to aquatic organisms in the Sacramento-San Joaquin River system. Report 94-1. California Department of Fish and Game. Sacramento, CA

Menconi, M.; Cox. C. 1994. Hazard assessment of the insecticide diazinon to aquatic organisms in the Sacramento-San Joaquin River system. Report 94-2. California Department of Fish and Game. Sacramento, CA

OCPFRD. 2002. Orange County Stormwater Program 2000-2001 Annual Status Report. Orange County Public Facilities and Resources Department. Anaheim, CA.

Schiff, K. and M. Sutula. 2002. Organophosphorous pesticides in stormwater runoff from Southern California. Technical Report No. 356. Southern California Coastal Water Research Project, Westminster, CA.

Wilen, C. Survey of residential pesticide use and sales in the San Diego Creek watershed, California. University of California, Cooperative Extension. Prepared for the California Department of Pesticide Regulation, Sacramento, CA. 101 pp.

Zar, H. 1984. Biostatistical analysis. Prentice Hall, Engelwood Cliffs, NJ. 718 pp.

Table 1. Characteristics of the three treatment study neighborhoods.

	Neighborhood		
	Technology + Education	Control	Education Only
Total Area (km^2)	0.48	0.36	0.57
Impervious Area (%)	64.3	54.8	82.2
Land Use (%)			
Single Family Res	34.4	53.8	47.9
Condo	7.7	0.0	1.1
Homeowners Assoc	1.6	1.0	4.3
School	3.8	9.0	4.2
Landscape	16.3	0.0	12.5
Street	29.2	28.2	28.1
Unknown	7.0	8.0	1.9

Table 2. Mean (± 95% confidence interval) OP pesticide concentrations during dry and wet weather at three neighborhoods in Orange County, CA

	Technology + Education		Control		Education	
	Mean	95% CI	Mean	95% CI	Mean	95% CI
Dry Weather (ng/L)						
Chlorpyrifos	317.6	569.9	19.5	8.1	572.0	978.8
Diazinon	1031.4	335.6	1762.9	1222.4	1576.1	514.4
Wet Weather (ng/L)						
Chlorpyrifos	40.7	20.2	5.5	2.7	156.3	44.5
Diazinon	685.2	288.9	900.3	605.5	1812.0	672.9

Table 3. Mean (± 95% confidence interval) OP pesticide flux and mass emissions during dry weather at three neighborhoods in Orange County, CA

	Technology + Education		Control		Education	
	Mean	95% CI	Mean	95% CI	Mean	95% CI
Flux (mg/km^2/day)						
Chlorpyrifos	0.29	0.11	1.02	0.57	2.62	1.73
Diazinon	13.0	7.3	45.8	18.2	79.2	45.2
Mass Emission (mg/day)						
Chlorpyrifos	0.14	0.05	0.37	0.21	1.5	1.0
Diazinon	6.3	3.5	16.5	6.5	45.2	26.1

Table 4. Mean concentration (and 95% confidence interval) of constituents in dry weather discharges collected before and after intervention at three residential neighborhoods in Orange County, CA.

Parameter	Technology + Education				Control				Education			
	Pre-Intervention		Post-Intervention		Pre-Intervention		Post-Intervention		Pre-Intervention		Post-Intervention	
	Mean	95% CI	Mean	95% CI	Mean	95% CI	Mean	95% CI	Mean	95% CI	Mean	95% CI
Concentration (ng/L)												
Chlorpyrifos	22.7	9.3	442.8	827.3	45.5	33.5	11.3	6.3	75.3	64.4	803.4	1433.3
Diazinon	1680.5	1379.4	829.6	338.7	3265.4	3277.2	1650.5	1540.9	1159.1	553.0	1738.6	721.4
Flux (mg/km^2/day)												
Chlorpyrifos	0.45	0.36	0.25	0.11	1.77	1.94	0.86	0.55	0.89	0.71	3.12	2.21
Diazinon	22.4	25.2	11.3	7.3	83.5	84.5	37.4	11.8	19.6	10.0	97.1	58.9

Table 5. Significance of T-test results (P value) for the effect of technology + education, education alone, and the difference between technology + education and education alone relative to control concentrations.

	Effect of Technology + Education	Effect of Education Alone	Difference Between Technology + Education and Education Alone
Chlorpyrifos	0.45	0.01	0.03
Diazinon	0.82	0.96	0.76

Table 6. Rainfall[a] and runoff characteristics from the wet weather sampling program in three neighborhoods in Orange County, CA.

	Storm Event Rainfall					Storm Event Runoff		
	Total	Duration	Intensity	Antecedent		Volume	Peak Flow	Mean Flow
Storm Event Date	(cm)	(hr)	(cm/hr)	(d, hr)	Neighborhood	(10^6 L)	(cfs)	(cfs)
April 7, 2001	1.63	9	0.33	2, 2	Technology + Ed	-[b]	-	-
					Control	3.44	429.3	39.9
					Education	2.85	311.2	32.9
November 12, 2001	0.71	1	0.41	1, 11	Technology + Ed	-	-	-
					Control	0.62	377.7	7.1
					Education	-	-	-
November 29, 2002	1.14	3	0.46	19, 11	Technology + Ed	1.54	382.0	17.8
					Control	0.87	148.5	10.0
					Education	2.62	894.9	30.3
December 16, 2002	2.24	7	0.64	16, 9	Technology + Ed	4.55	875.4	52.7
					Control	3.97	616.4	45.9
					Education	6.62	1248.5	76.6

[a] one rain gage was used for all sites
[b] - indicates no data

Table 7. Mean (± 95 % confidence intervals) of wet weather concentrations, mass emissions, and flux from four wet weather events at three residential neighborhoods in Orange County CA.

			Concentration (ng/L)				Mass (mg/storm)				Flux (mg/km^2/storm)			
			Chlorpyrifos		Diazinon		Chlorpyrifos		Diazinon		Chlorpyrifos		Diazinon	
Storm Date	Neighborhood	N	Mean	95% C.I.	Mean	95% C.I.	Mean	95% C.I.	Mean	95% C.I.	Mean	95% C.I.	Mean	95% C.I.
April 7, 2001	Technology + Ed	13	52.2	5.6	2013.8	524.7	nc[a]	nc	nc	nc	nc	nc	nc	nc
	Control	8	48.0	35.6	480.4	147.3	165.1	122.5	1652.6	506.7	458.7	340.2	4590.5	1407.5
	Education only	8	59.6	24.4	726.6	183.8	169.9	69.5	2070.8	523.8	298.0	122.0	3633.0	919.0
November 12, 2001	Technology + Ed	12	21.6	5.4	182.7	14.6	nc	nc	nc	nc	nc	nc	nc	nc
	Control	6	13.2	33.9	511.8	423.9	8.2	21.0	317.3	262.8	22.7	58.4	881.4	730.1
	Education only	6	64.2	18.1	203.0	31.6	nc	nc	nc	nc	nc	nc	nc	nc
November 29, 2002	Technology + Ed	13	39.7	41.8	287.7	82.7	61.1	64.4	443.1	127.4	29.3	30.9	212.7	61.1
	Control	8	0.0	0.0	291.1	43.9	nd[b]	nd	253.3	38.2	nd	nd	703.5	106.1
	Education only	8	270.5	80.6	1167.9	242.7	708.7	211.2	3059.9	635.9	1243.4	370.5	5368.2	1115.6
December 16, 2002	Technology + Ed	9	111.0	80.3	460.8	162.8	505.1	365.4	2096.6	740.7	242.4	175.4	1006.4	355.6
	Control	10	3.1	6.9	635.1	292.2	12.3	27.4	2521.3	1160.0	34.2	76.1	7003.7	3222.3
	Education only	9	249.4	76.5	4326.8	2423.4	1651.0	506.4	28643.4	16042.9	2896.5	888.5	50251.6	28145.5

[a] not calculated, no flow data
[b] not detected

HICKS CANYON

YALE

CULVER

FLORENCE

NORTHWOOD

WESTWOOD

BRYAN

IRVINE

SOUTHWOOD

EASTWOOD

TRABUCO

SANTA ANA

JEFFREY

Legend

- 1001 - Retrofit Group
- 1002 - Control Group #1
- 1003 - Control Group #2
- 1004 - Control Group #3
- 1005 - Education Group

Map Not to Scale

R3SiteID.pdf
10-10-01

Residential Runoff Reduction Study
Study Site Identification Map

N
W E
S

Figure 2. Monthly average OP concentrations in dry weather discharges from five residential neighborhoods in Orange County, CA.

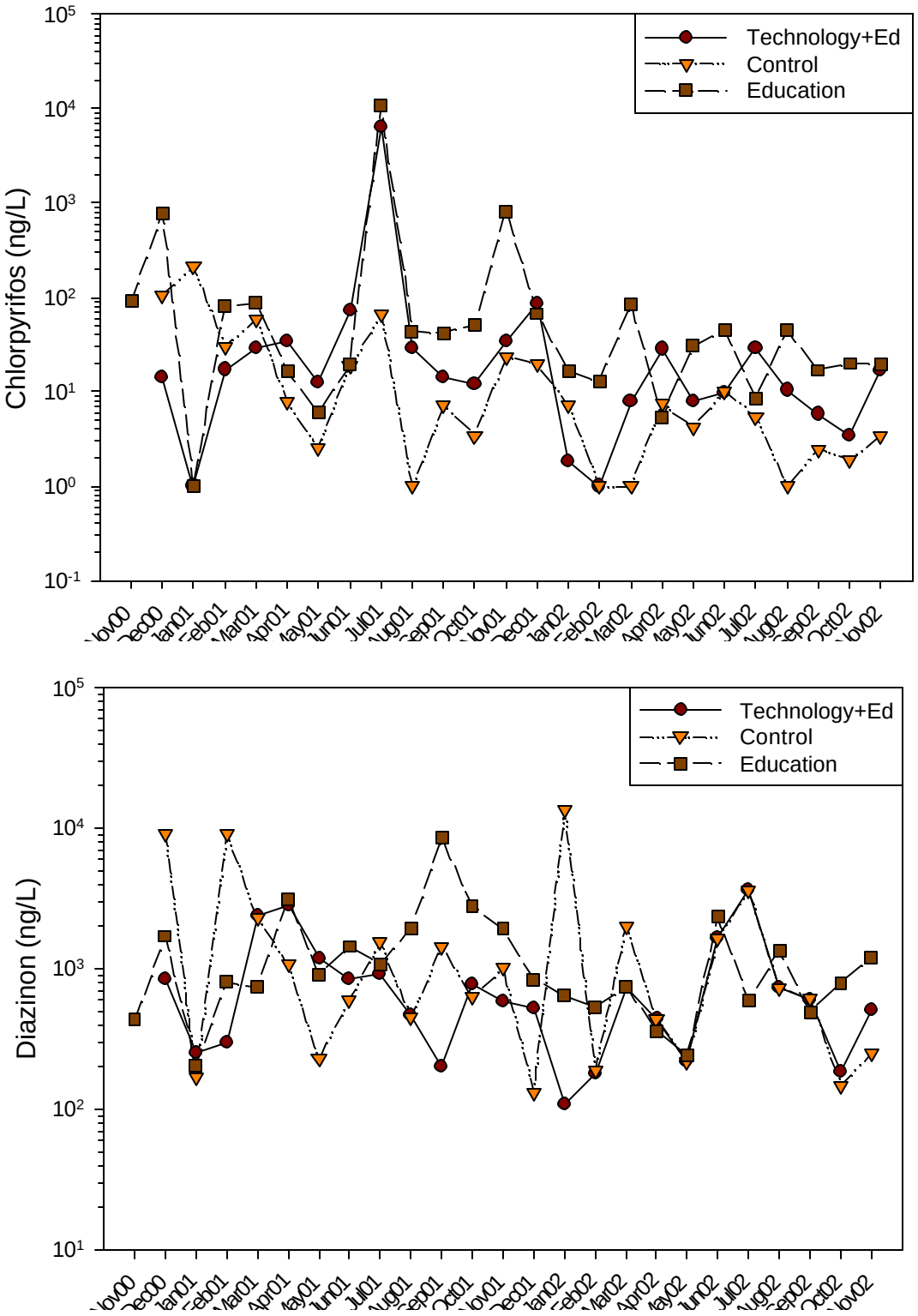
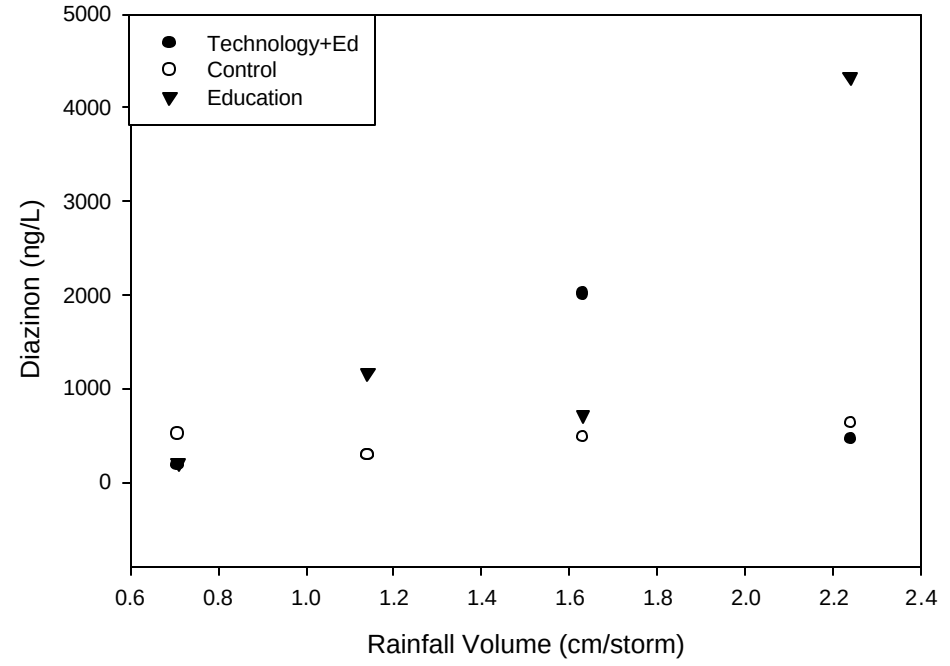


Figure 3. Rainfall characteristics versus diazinon concentration.



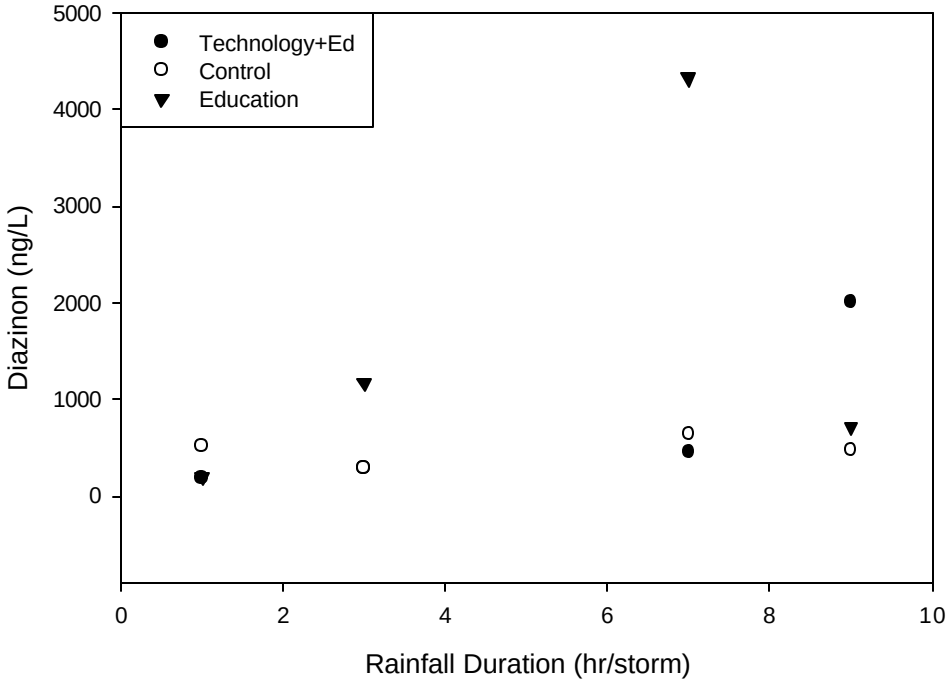


Figure 4. Time concentration series of flow, chlorpyrifos, and diazinon during four storm events at a residential neighborhood in Orange County, CA.

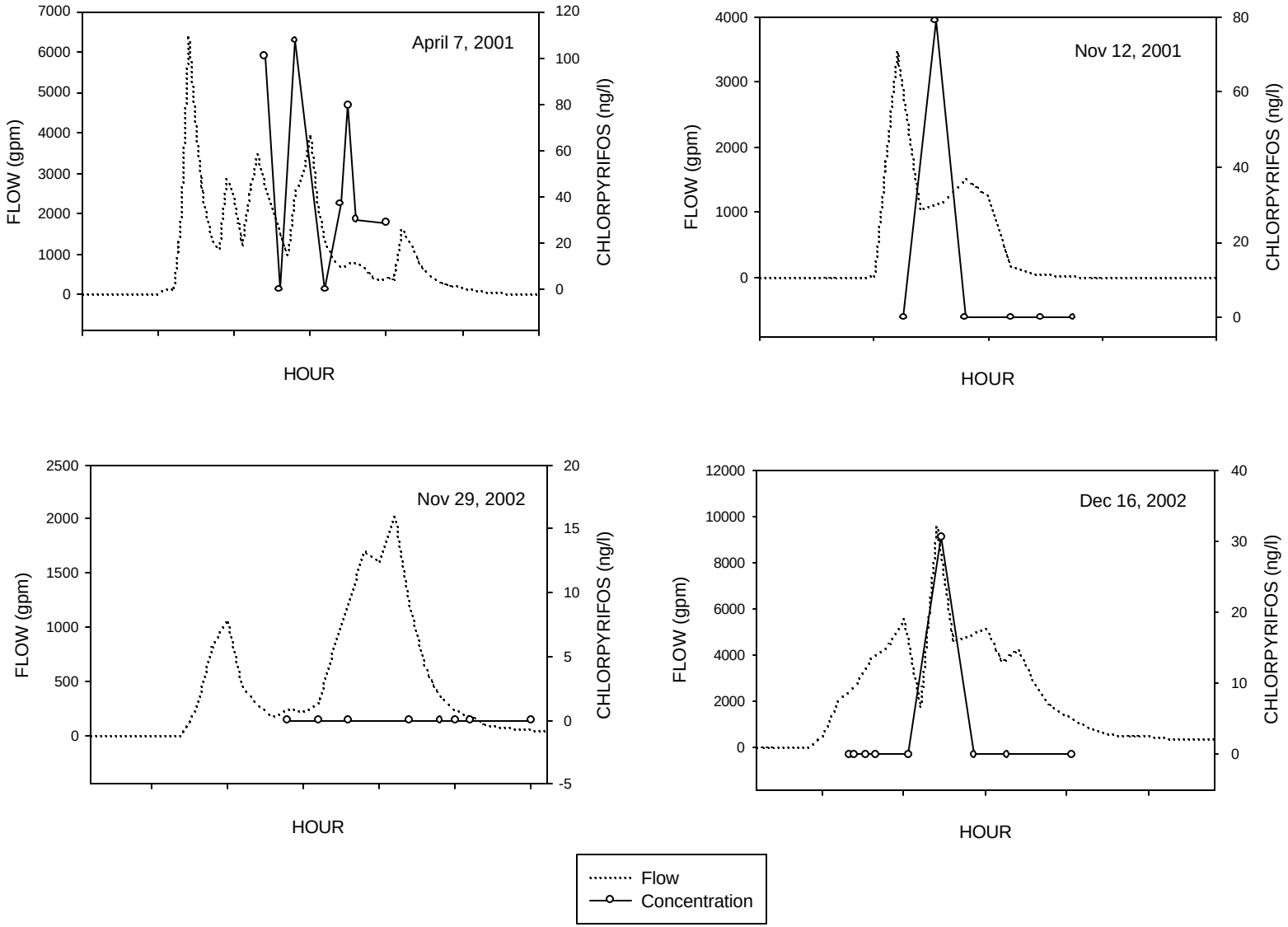


Figure 4. continued

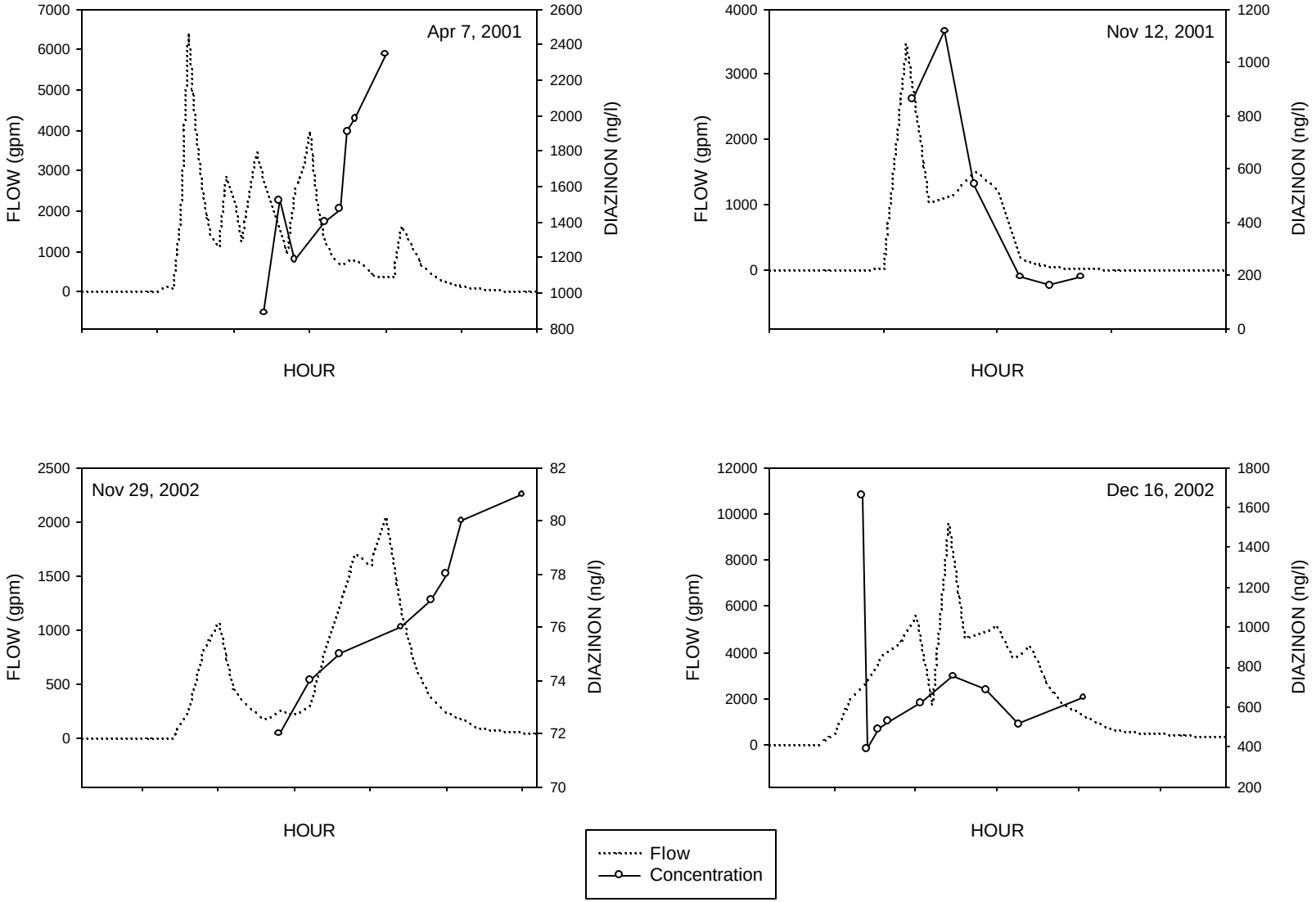


Figure 5. Mean concentrations (± 95% confidence intervals) of diazinon from storm events sampled from three residential neighborhoods in this study and various land uses sampled in Los Angeles County (from Schiff and Sutula 2002).

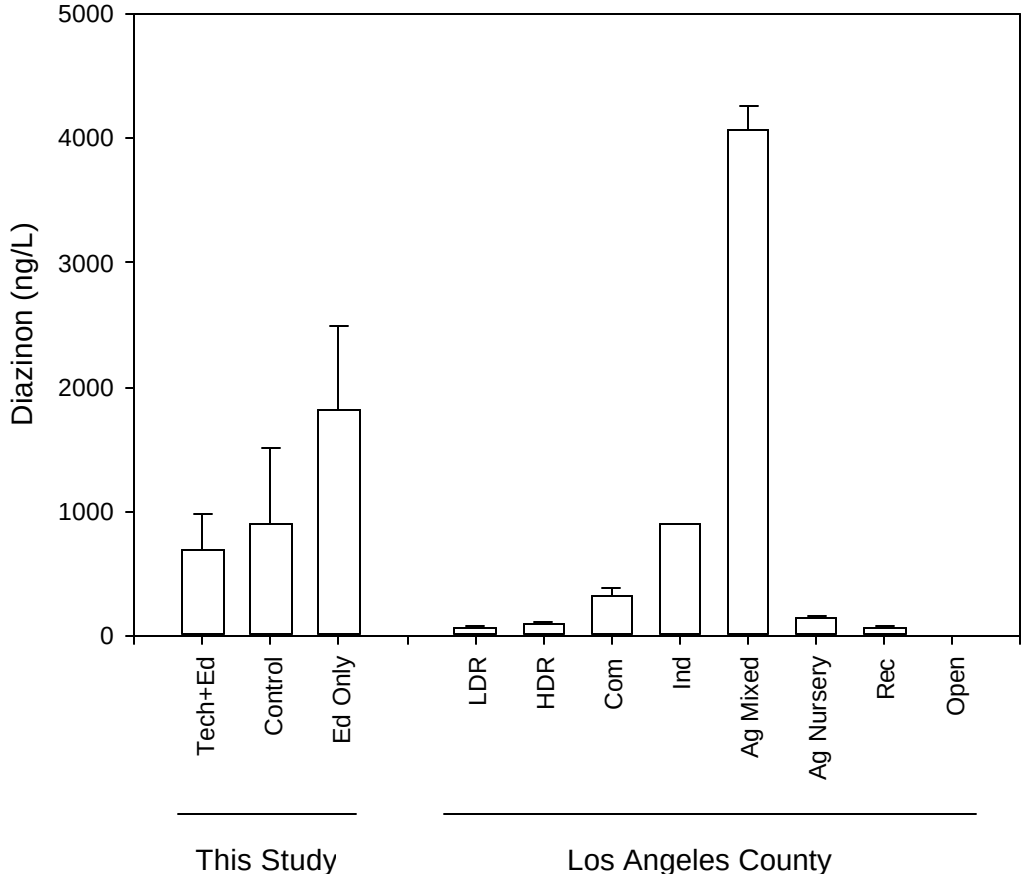
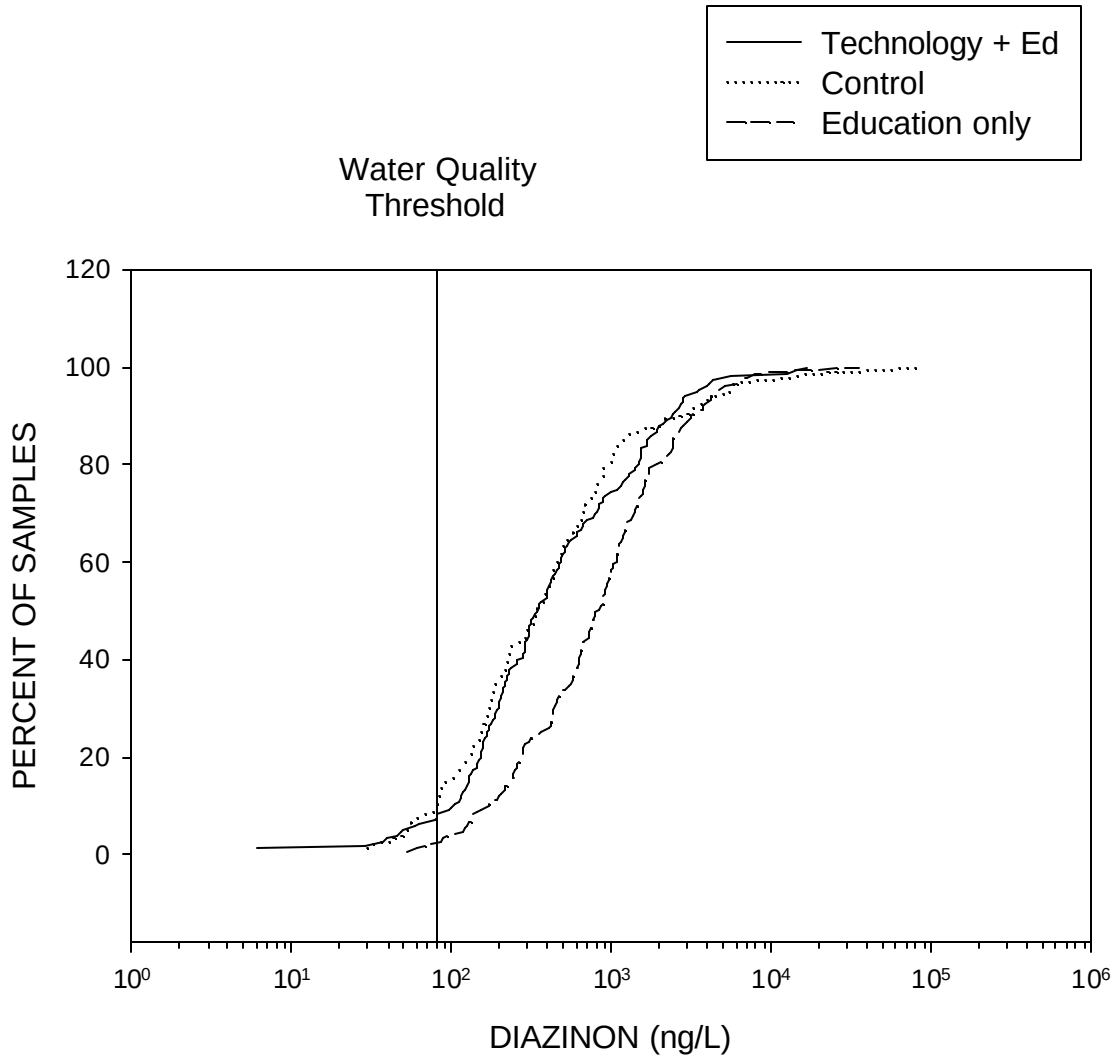


Figure 6. Cumulative distribution frequency of diazinon in dry weather samples taken from three residential neighborhoods in Orange County, CA. The acute water quality threshold = 80 ng/L)



APPENDIX A

Technology-Based BMP

HydroPoint
data systems, inc.

news | company | partners | products & services | customer service

WeatherTRAK
ET Everywhere

The WeatherTRAK Solution

The WeatherTRAK ET Controller and Data Service represent the most reliable, cost effective, automated irrigation solution on the market proven to:

- conserve water
- reduce runoff
- promote plant health
- protect landscape investments

The patented WeatherTRAK technology is ideally suited for both residential and commercial sites. It can be can be used with brand new irrigation systems and can easily be retrofit into any current irrigation system by replacing the existing controller or timer.

Order the WeatherTRAK ET Controller today and never have to adjust your irrigation controller again. Realize proven savings and benefits from the most advanced, automated irrigation solution available.

Compare WeatherTRAK

Intelligent Irrigation Scheduling Engine

Each WeatherTRAK ET Controller includes an intelligent, irrigation scheduling engine that automatically calculates a proper watering schedule for your specific landscape. **Never again will you have to guess how much to water or when.**

The proven scheduling engine utilizes a revolutionary approach to landscape irrigation by combining real time weather ET data with landscape specific parameters such as plant type, soil type, slope, sprinkler type, sun exposure and skip days. The result is an irrigation schedule tailored to your landscape that automatically adjusts itself as your weather changes.

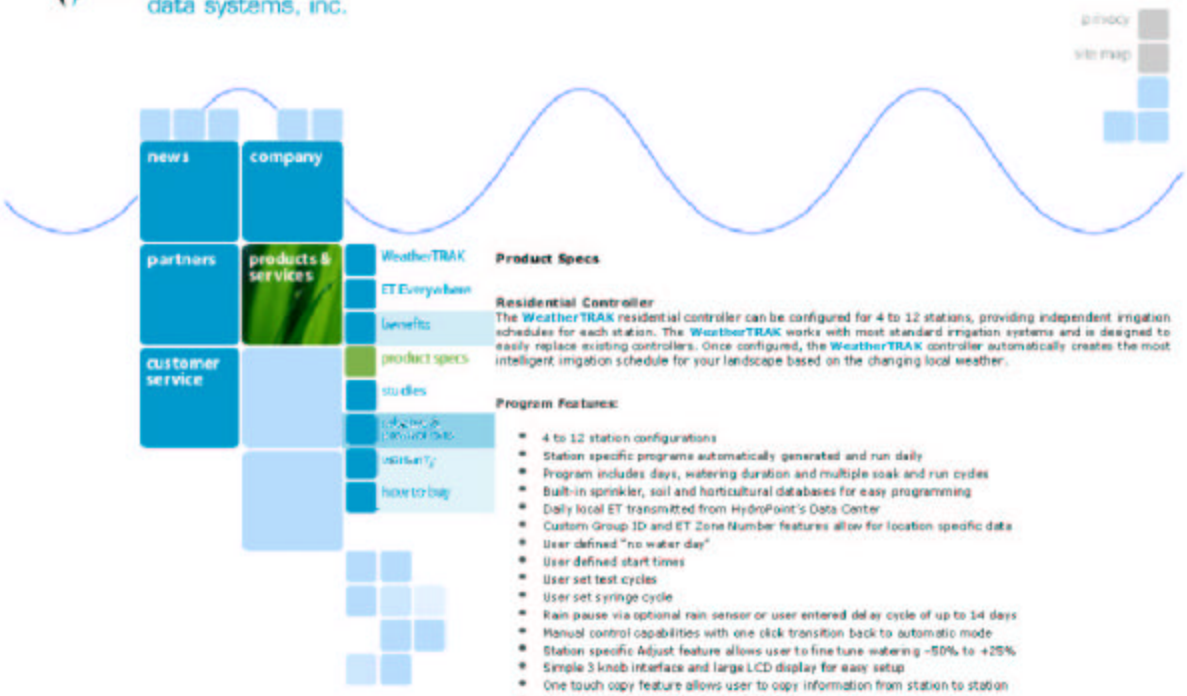
Real Time Weather Based ET Data Service

Each day, the WeatherTRAK Data Service transmits location based weather updates in the form of ET values directly to the WeatherTRAK ET Controller via HydroPoint's patented wireless communications system. This unique combination of an intelligent scheduling engine with daily, location specific weather data provides users with the most reliable and cost effective automated landscape irrigation solution.

Tunable Network and Updatable Architecture

Combined, the WeatherTRAK's various technologies represent an 'irrigation network' that can be continually tuned toward greater overall efficiency on both a global and local level, without the need for expensive hardware upgrades to the controller. WeatherTRAK's constant wireless communication between the Data Center and each controller allows HydroPoint to continually pass on improvements made by our experienced team of scientists and engineers in response to valuable customer feedback and continual data analysis.

HydroPoint
data systems, inc.



Product Specs

Residential Controller

The **WeatherTRAK** residential controller can be configured for 4 to 12 stations, providing independent irrigation schedules for each station. The **WeatherTRAK** works with most standard irrigation systems and is designed to easily replace existing controllers. Once configured, the **WeatherTRAK** controller automatically creates the most intelligent irrigation schedule for your landscape based on the changing local weather.

Program Features:

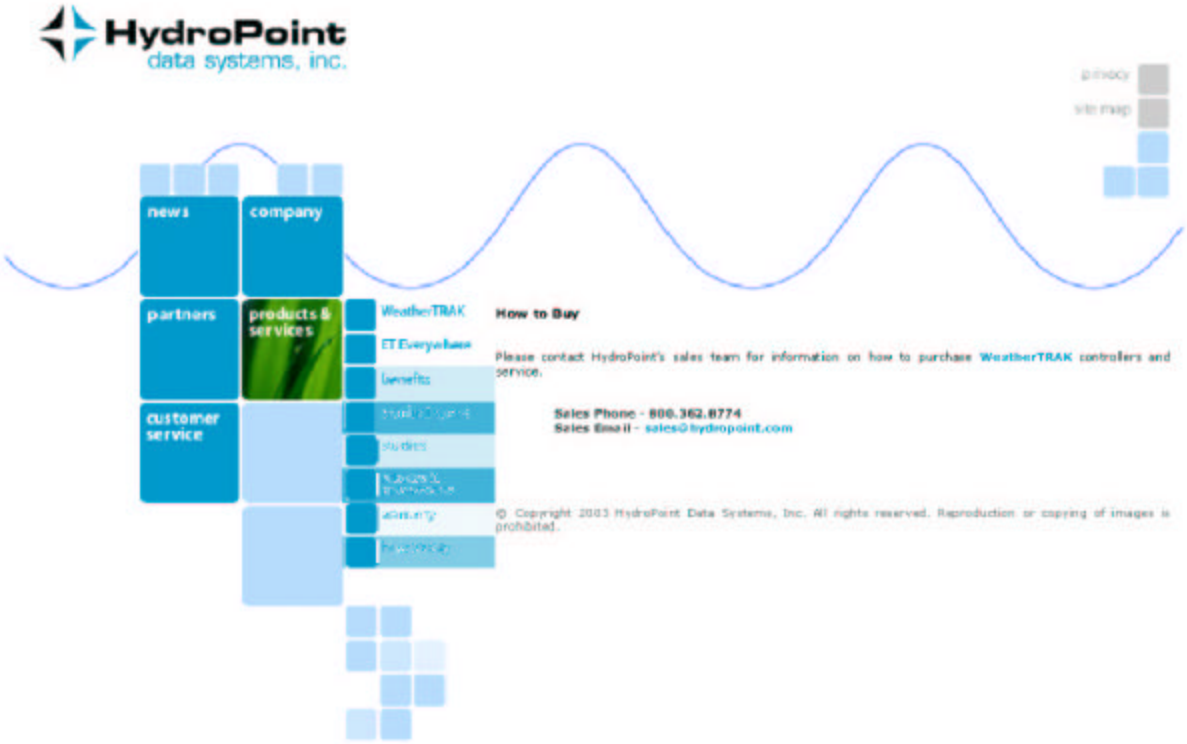
- 4 to 12 station configurations
- Station specific programs automatically generated and run daily
- Program includes days, watering duration and multiple soak and run cycles
- Built-in sprinkler, soil and horticultural databases for easy programming
- Daily local ET transmitted from HydroPoint's Data Center
- Custom Group ID and ET Zone Number features allow for location specific data
- User defined "no water day"
- User defined start times
- User set test cycles
- User set syringe cycle
- Rain pause via optional rain sensor or user entered delay cycle of up to 14 days
- Manual control capabilities with one click transition back to automatic mode
- Station specific Adjust feature allows user to fine tune watering -50% to +25%
- Simple 3 knob interface and large LCD display for easy setup
- One touch copy feature allows user to copy information from station to station
- Pump start / master valve option included
- Advanced mode allows for exact user specified irrigation system precipitation rates

Hardware and Electrical Specifications:

- Retains all program information and user settings in case of power failure without battery
- Transformer Input: 105-125 VAC 60Hz
- Transformer Output: 24 VAC 60Hz
- Physical Dimensions: (indoor mounted unit) 7" H x 6" W x 2" D (included radio antenna extends 4")
- Two amp fuse protects controller
- Optional outdoor weather proof enclosures available
- Optional rain sensor available

Commercial Controller

The **WeatherTRAK** commercial controller is currently in production and is scheduled for general availability in October 2003. The commercial controller will be configurable for up to 48 stations and will be based on the same proven technology used in the current residential controller. Additionally the commercial controller will include advanced features such as: weather resistant enclosure, remote control, and user definable water window.


HydroPoint
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benefits
How to Buy
Please contact HydroPoint's sales team for information on how to purchase WeatherTRAK controllers and service.
Sales Phone - 800.362.8774
Sales Email - sales@hydropoint.com
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APPENDIX B

Public Education BMP

Residential Runoff Reduction Study Team & Sponsors:

U.S. Environmental Protection Agency

U.S. Bureau of Reclamation

National Water Research Institute

Irvine Ranch Water District

Municipal Water District of Orange County

Metropolitan Water District of So. California

Southern California Coastal Water Research Project

State Water Resources Control Board

California Department of Pesticide Regulation

CTSI Corporation

Monthly Landscape Maintenance Guide for Water Use Efficiency & Runoff Reduction

Home Landscape Tips and Facts to Reduce WaterRunoff from Your Home

Irrigation:

- Checktheirrigationsystemforleaks,oversprayand mistingbyturningoneach valve; adjust sprinkler heads so theysprayonlyon theplants,andrepairbroken,clogged,mis-alignedor leakingheads.Itwillsavemoneyand create a healthierlandscape.
- Use a soilprobetochecksoilmoisture.Ifthesoiliswetor moist, youdon'tneedtowater. Take anotherday offfromwatering.If the soiliswet, the wateryouapplywill runoffinto thestreetandouttothebayandbeaches.
- Look forwetsoilintheshadedareasoftheyard.Turnwaterdowninthoseareasuntilthe soildries.
- Remember, turf(grass) isthehighestwater usingplantintheyard.Allotherplantstake 25%-50%lesswaterthanturf. Plants willbehealthierwhenthey receive the rightamountof water.
- Turn sprinklersystemsoffbeforerainstorms. Useasoilprobetoevaluatesoilmoisture after rains andbefore turning irrigationcontrollers backon.Too much watercanreduceplant healthandappearance.

Fertilization:

- Fertilizer causesplantstogrow faster, resultinginmoremowingandpruningandgreater wateruse.Limitapplicationstoreduceyardwork.
- Followinstructions on fertilizerlabel.A littlefertilizerisgood;alotoffertilizer is notbetter.
- Fertilizer,usedimproperly,becomes a toxicchemical.Apply thefertilizeronlytothe plants/soil. Donotletthefertilizergetonsidewalks,patiosandstreets,whereitwashesinto stormdrains.
- Use "slowrelease" fertilizer(askyourgarden center forbrands)to producean even,long-lastinggreenappearance inyouryard. UsetheMonthlyLandscapeGuidecalendarfor fertilizer timing.
- Note:specialtyplantssuchasroses,annualsandperennialsmay require differentfertilizer applications.Followguidelinesforthoseplantswithwaterrunoffinmind.

Weed&PestControl:

- Look closely atyourplants.Ifthedamagefrominsects isnotgreat,don'tapplypesticides. Pest controlchemicalsalsokillbeneficialinsects,suchasladybugsandlacewings.
- Tryusingahardsprayofwaterto"knock"insectsoffofplants.Thisiseffectiveforaphids and grasshoppers, for example.
- Alightmixtureofdishsoaporinsecticidalsoap(fromnurseries)iseffectiveonmanygarden insects,andisbio-degradableintheenvironment.Usesoapstospraydirectlyoninsect-infestedplants.
- Aneasywaytocontrolweedsintheyardiswitha2"layer oforganicmulch.Mulchwillkeep most weeds from germinatingandweedseed from taking rootin your yard.
- Use compostedorganicmulchforthebestresults.Itwillsupplynutrientstothesoil,keep weedsdownandhelpto retain water in thesoil.Donotusegrass clippingsorshreddedwood chips.Bothwillrobthesoilofnutrients.
- Use chemicalsinthegardenonlyasdirectedonthecontainerlabels.Disposeofunused gardenchemicalsinaresponsiblemanner.Don'tletgardenchemicalsgetintothewaterways and pollute thebaysand beaches.

Savingmoney,havinga healthylandscapeand improving thelocal environment go handinhand.

Glossary(continued)

frompetwastein to local waterways, causingpollution.

Watering Schedule

Theschedulingofhowoftentoruntheirrigationsystemtowatertheyard. See the **MonthlyLandscapeMaintenanceGuide** calendarforsuggested water days.Iftheguideshows **3▶2** for thatmonthitmeans thatthe weatherischanging,gettingcooler.You may start the month watering3 days perweekbutcanlaterreducewateringto two days per week. If the guide shows **4▶5** theweathergenerally gets warmer, andmayrequirean extradayofirrigation.

UsingtheMonthly Landscape Maintenance Guide

Tohaveahealthyyardandtousewaterresourcesefficiently,refertothe MonthlyLandscapeMaintenanceGuidecalendar.Thiscalendarisbasedon university research and the maintenance practices of landscape professionals.The guide is specific to Orange County soils and historic weather patterns.Thisisaguideonly. This guide does not hold public agencies responsible for the health and appearance of your home landscape.

Thisguideisnotintendedtoincreaseyouruseofwater,fertilizerorother gardenproducts.

Thisguideisintendedtoincrease awareness ofwaterandchemicalusein the home landscape with the goal to decrease waterrunoff and water pollution.

Glossary (continued)

Mulch
Organic materials, generally compost, that cover the soil surface to reduce weed growth, provides soil nutrients and improve soil water holding capacity. Apply at least 2 inches of organic mulch for the best results.

Nitrogen
The most necessary of plant nutrients. Most plants, particularly turf grass, need regular applications of nitrogen for green healthy growth.

Overspray
Spray from sprinklers that hits streets, walls, sidewalks, cars, etc., often resulting in water runoff.

Pesticides
Chemicals and insecticidal soaps applied to control landscape pests, including aphids, ants, gophers, whitefly, etc. Application of pesticides should conform to the recommended amounts as described on package labels/instructions. **Pesticides, when improperly applied, can be hazardous to the environment.**

Root-Zone Watering
Apply water only as deep as the plant root zone. For turf, the root zone may be 2 inches to 6 inches deep. Use the soil probe to check the turf root depth in your yard. Trees benefit from deep watering during hot months.

Slow Release Fertilizer
A type of fertilizer that releases nutrients slowly over a longer period of time. This slow release action allows the plants to receive small doses of nutrients, reducing rapid plant growth or wasted fertilizer. Ask for slow release fertilizer from gardeners and nurseries.

Soil Probe
A landscape tool that is used to monitor/evaluate soil moisture. Directions for using a soil probe: (1) push the probe into the soil in any planting area (turf, shrubs, groundcovers, etc.), (2) touch the soil core for moisture, (3) if the soil is wet, don't water; if the soil is dry, it's time to water. If moisture is reaching significantly below the roots, water fewer minutes.

Turf
Grass or lawn. Turf generally requires much more water than shrubs or groundcovers.

Water Efficiency
Applying only the amount of water plants need to be healthy. Plants can't use more water than the local weather dictates. Use a soil probe to monitor soil moisture.

Water Runoff
Water that runs into the street and storm drain system. The source of water can be from yard sprinklers, pavement wash-down, car washing, etc. The water washes toxins from pesticides, nutrients from fertilizers and bacteria

Glossary of Landscape Terms

Balanced Fertilizer
A type of fertilizer that supplies multiple plant nutrients. Ask for a balanced fertilizer from gardeners and nurseries unless a specific nutrient problem exists in the soil.

Blocked Sprinklers
An irrigation sprayhead where turf grass has grown high to block the normal spray of water; trees, shrubs and groundcovers may also block the normal spray pattern of sprinkler heads.

Clogged Sprinklers
Sprinklers that cannot provide enough water spread across the plant area due to dirt clogging the spray emitter.

Deep Watering
The action of putting water deeply into the soil to reach the roots of trees; deep watering generally means letting water run **slowly** around the base and drip-line (leaf line) of a tree to avoid water run-off. Generally deep watering for trees is done only once each hot month.

Dry Spots
Areas of your yard that do not receive enough water (due to blocked, sunken, clogged, misting or broken sprinklers).

Fertilizer
Chemicals applied to plants/soils to aid plant growth, health and appearance. Fertilizers should include major nutrients (nitrogen, phosphorous, potassium) and minor nutrients (such as sulfer, iron, magnesium, zinc, etc.). Plants can only "take up" small amounts of nutrients at a time. Applications of fertilizer should conform to recommended amounts as described on package labels/instructions. **Fertilizer, when improperly applied, can be hazardous to the environment.**

Herbicides
Chemicals applied to control weeds in the landscape. Application of herbicides should conform to the recommended amounts as described on package labels/instructions. **Herbicides, when improperly applied, can be hazardous to the environment.**

Irrigation System
All parts of the system that deliver water to the landscape, including irrigation timers (controller), underground pipe, sprinkler heads, drip irrigation lines, etc.

Misting
A fine mist of water that evaporates into the air instead of landing on the plants/soil. Caused by high pressure in the sprinkler system.

(Continues on page following the Landscape Maintenance Guide Calendar)

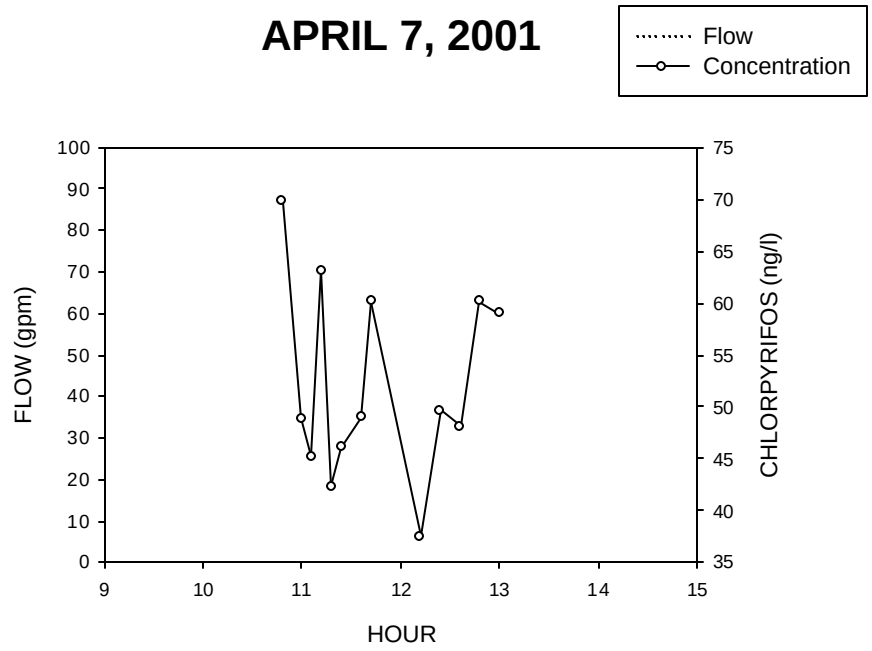
Monthly Landscape Maintenance Guide for Water Use Efficiency & Runoff Reduction

	Seasons											
	Fall		Winter			Early Spring		Late Spring		Summer		
Month	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
Irrigation System												
Checkfor: Runoff, from broken, blocked, clogged heads or overspray	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Check for Misting	✓				✓		✓		✓		✓	
Check for Dry Spots	✓							✓	✓	✓	✓	✓
Watering Schedule If two numbers are shown (i.e. 3 ▶ 2) adjust the number of days as indicated sometime during the month.												
Turf (grass) or Annuals Days to water per week	3 ▶ 2	2 ▶ 1	1	1	1 ▶ 2	2 ▶ 3	3	3	4	4 ▶ 5	4	4 ▶ 3
Trees, Shrubs Groundcovers	2 ▶ 1	1	1	1	1	1 ▶ 2	2	2	2	2	2	2
Deep Watering (trees)	●								●	●	●	●
Root zone watering: Use the soil probe anytime you think there is too much or too little water in the yard. If soil is moist in the plant root zone, irrigation level is OK. If the soil is very wet, reduce your watering.												
Rain potential: Turn controllers to "rain pause" or off. Use a soil probe to determine when to turn controllers back on.	✓	✓	✓	✓	✓	✓	✓					
Fertilizing (specialty plants like roses or annuals may have different fertilizer requirements)												
Turf	✓ Balanced slow release					✓ Nitrogen slow release		✓ Nitrogen slow Release			✓ Nitrogen slow release	
Groundcovers	✓ Balanced slow release					✓ Balanced slow release			✓ Balanced slow release			
Shrubs							✓ Balanced slow release					✓ Balanced slow release
Trees						✓ Balanced slow release						✓ Balanced slow release
Weed/Insect Control												
Mulch	✓							✓				
Pesticides (insects)						✓	✓		✓			✓
Herbicides (weeds)					✓		✓				✓ Optional	

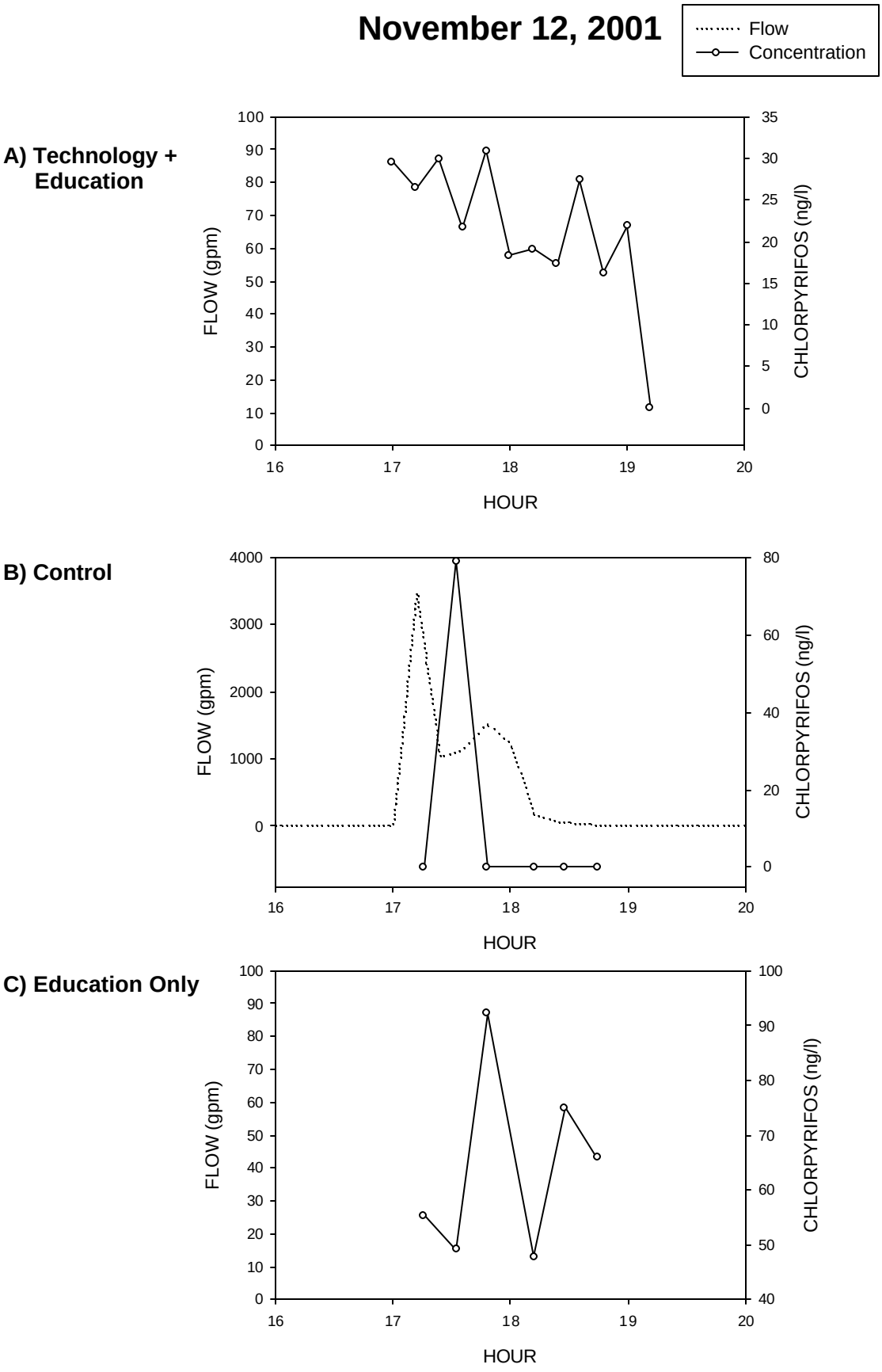
APPENDIX C

Wet Weather Time Concentration Series

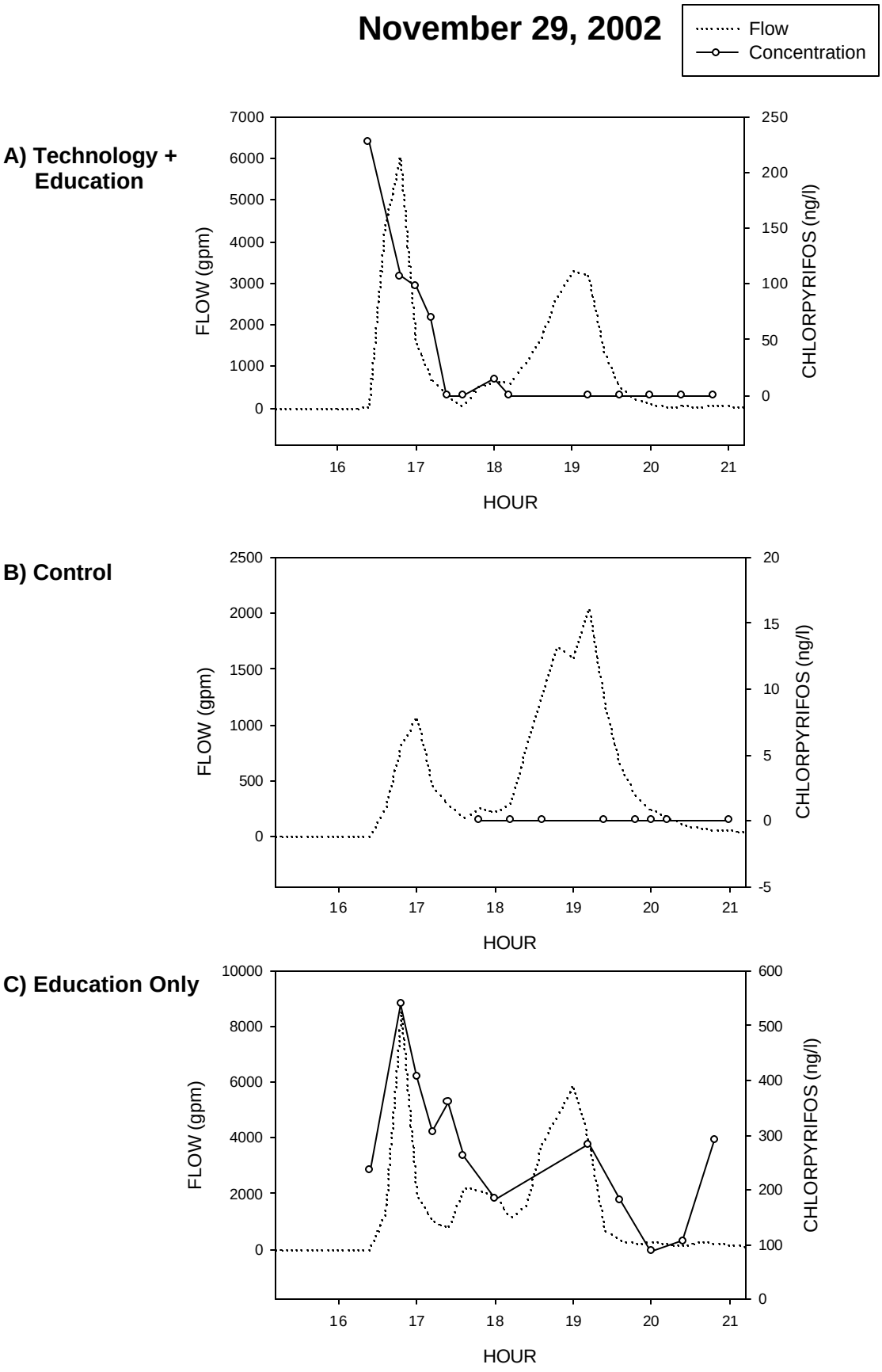
APRIL 7, 2001


Flow
Concentration
A) Technology + Education
FLOW (gpm)
CHLORPYRIFOS (ng/l)
HOUR
B) Control
FLOW (gpm)
CHLORPYRIFOS (ng/l)
HOUR
C) Education Only
FLOW (gpm)
CHLORPYRIFOS (ng/l)
HOUR

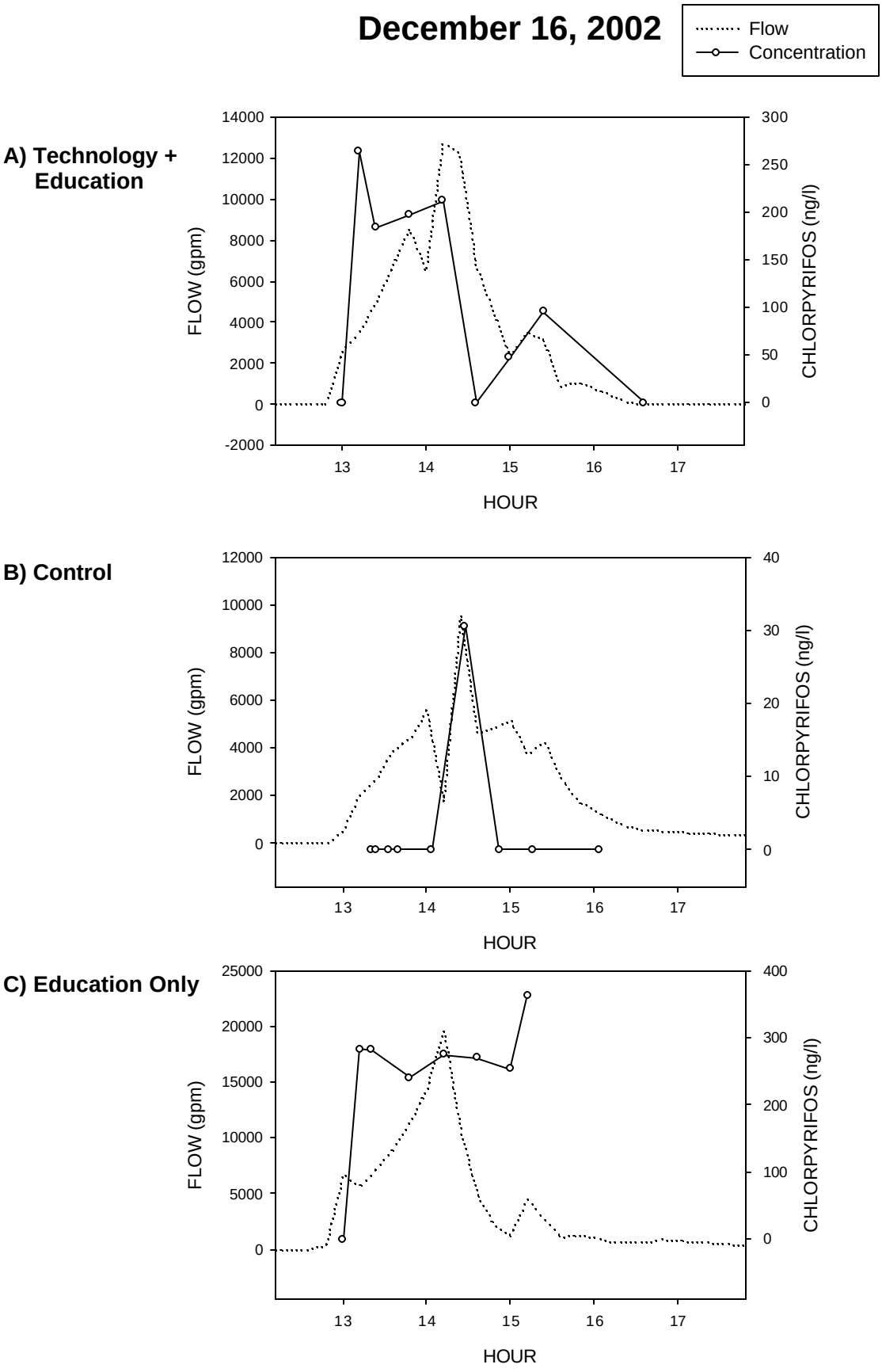
November 12, 2001



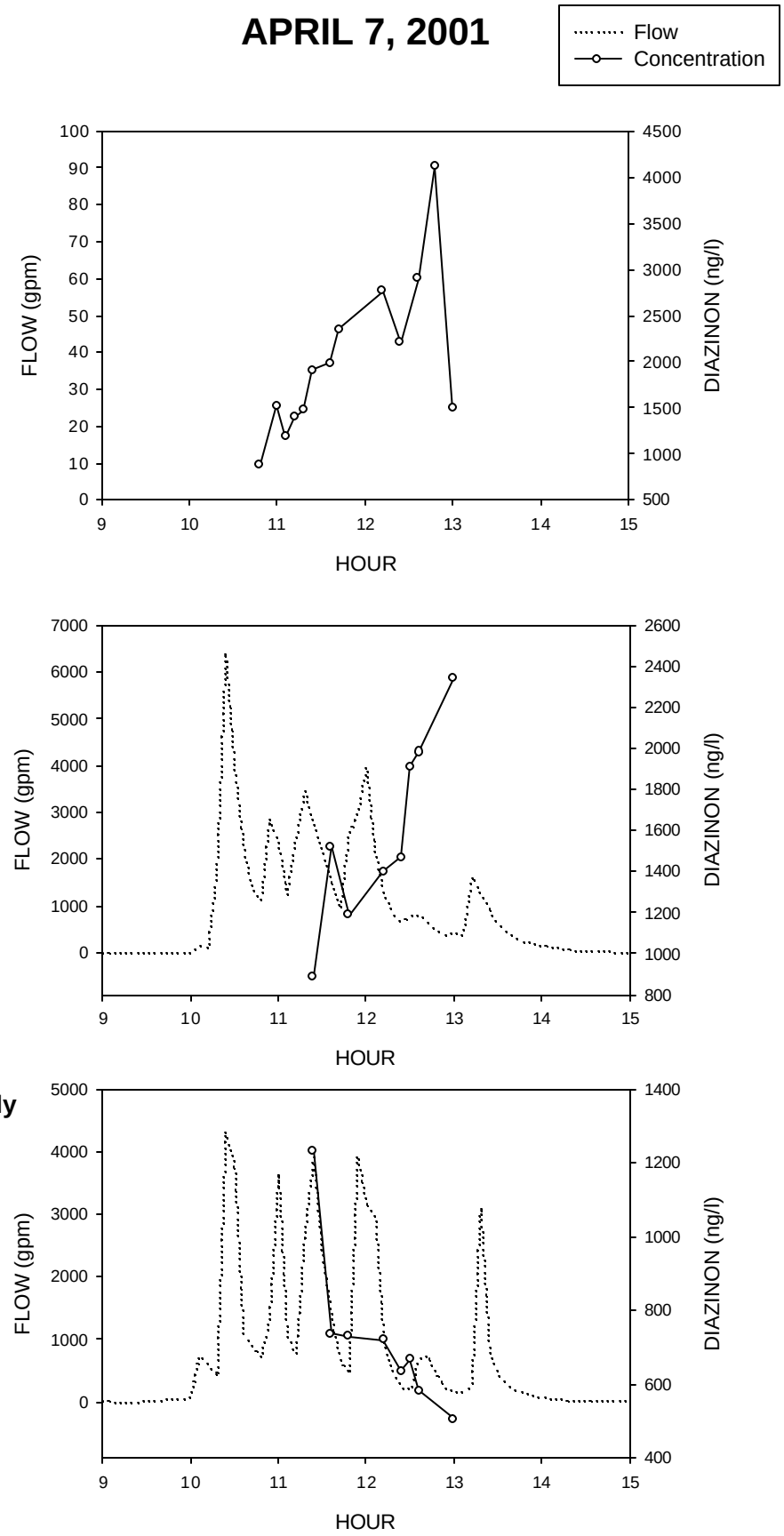
November 29, 2002



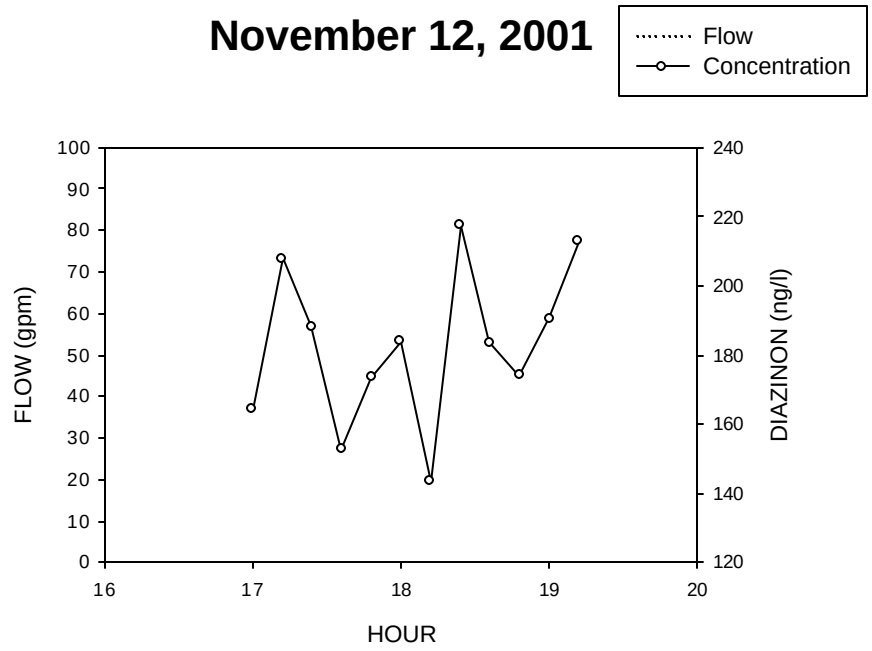
December 16, 2002



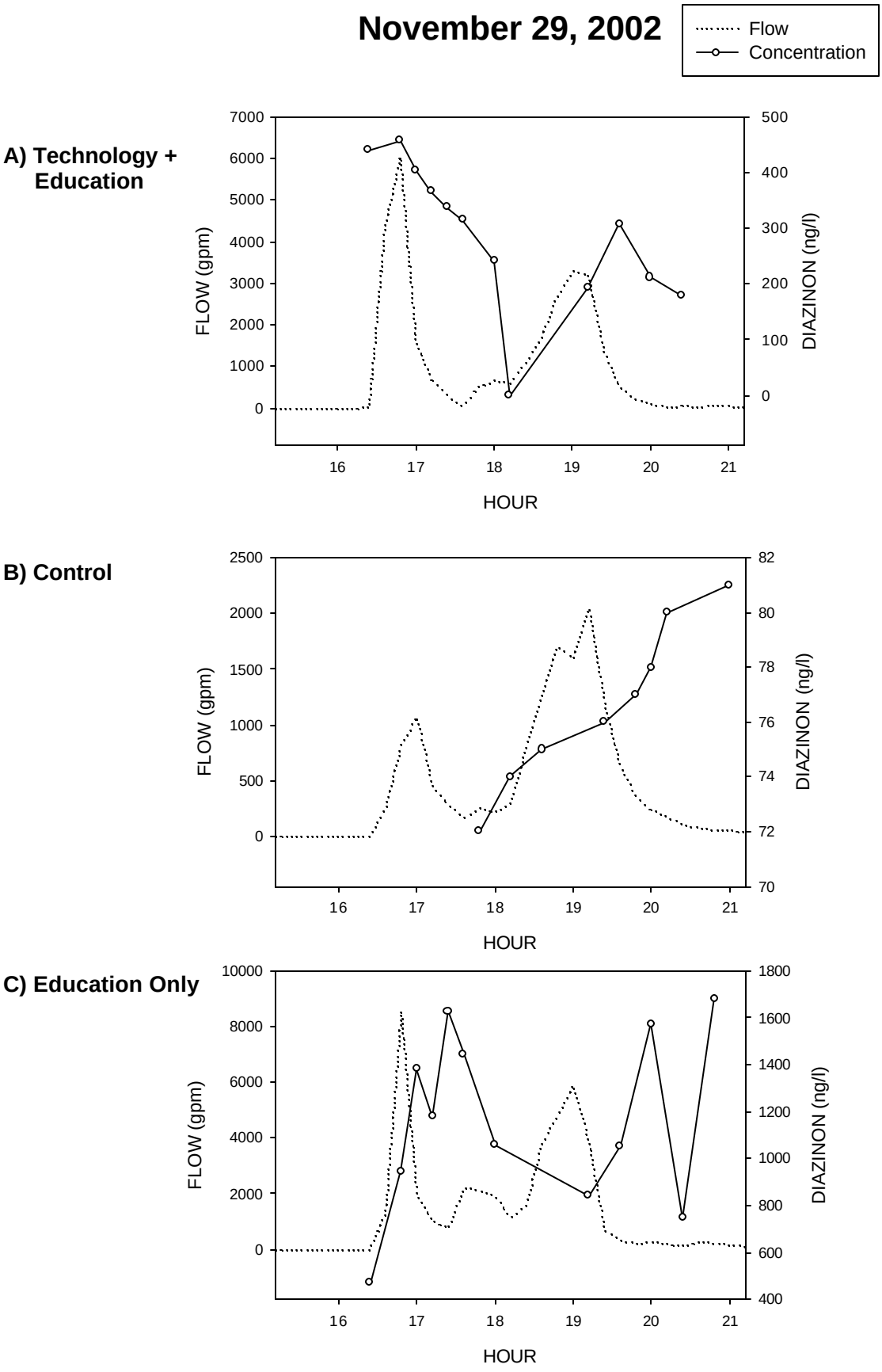
APRIL 7, 2001


Flow
Concentration
A) Technology + Education
B) Control
C) Education Only
FLOW (gpm)
DIAZINON (ng/l)
HOUR

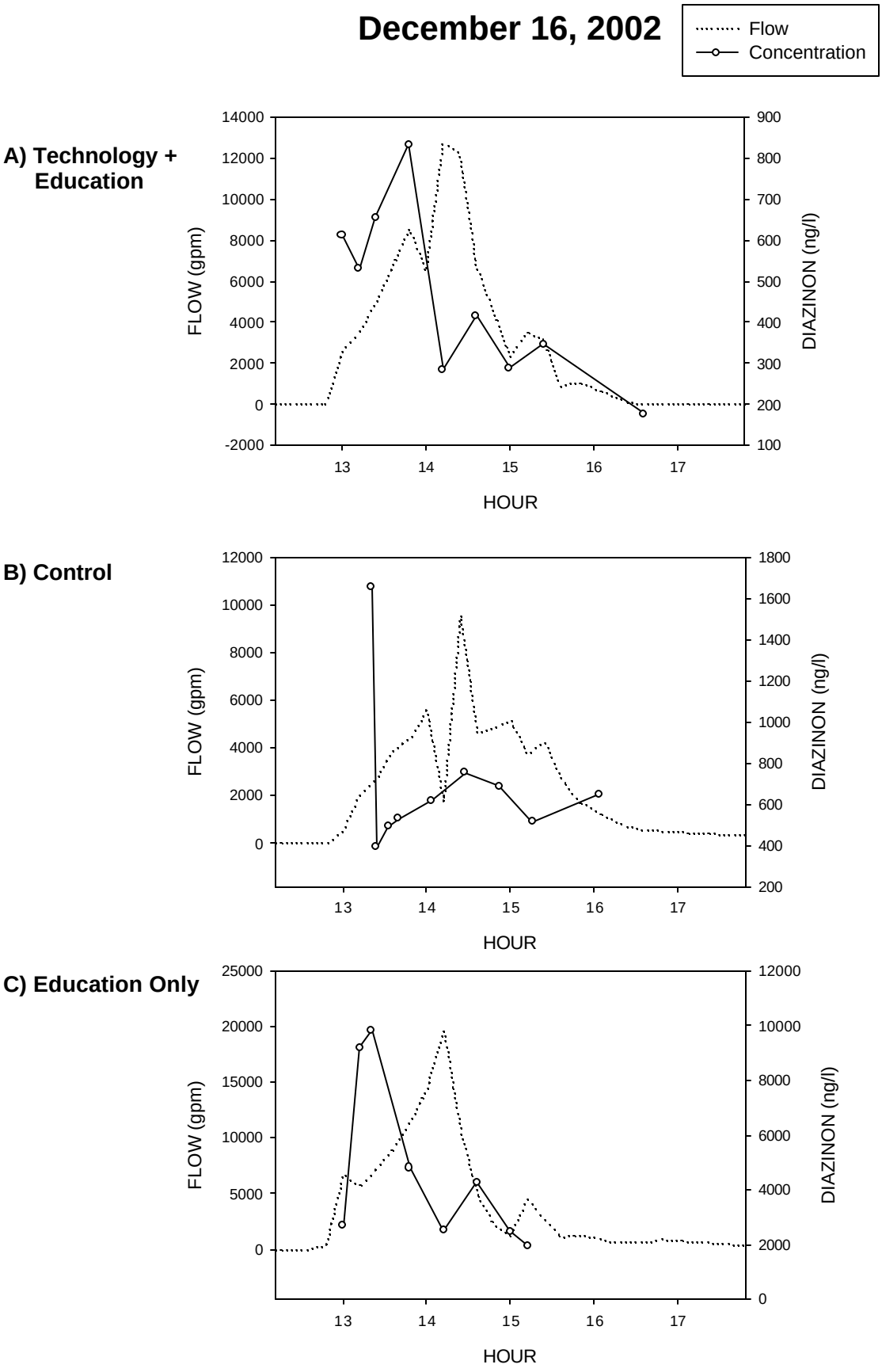
November 12, 2001



November 29, 2002



December 16, 2002



APPENDIX D

Raw Data

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Laboratory	28-Nov-00	4:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Nov-00	4:20	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Nov-00	4:20	Chlorpyrifos	BS	Freshwater		114.72	ng/L	20	
Laboratory	28-Nov-00	4:20	Chlorpyrifos	BSD	Freshwater		92.41	ng/L	20	
Laboratory	05-Dec-00	4:55	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Dec-00	4:55	Chlorpyrifos	BS	Freshwater		58.99	ng/L	20	
Laboratory	05-Dec-00	5:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Dec-00	5:15	Chlorpyrifos	BS	Freshwater		56.75	ng/L	20	
Laboratory	12-Dec-00	4:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	12-Dec-00	4:15	Chlorpyrifos	BS	Freshwater		97.18	ng/L	20	
Laboratory	19-Dec-00	5:05	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Jan-01	4:44	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Jan-01	4:44	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	30-Jan-01	4:55	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	01-Feb-01	19:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	04-Feb-01	6:25	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Feb-01	19:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	18-Feb-01	5:38	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	01-Mar-01	7:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	07-Mar-01	5:16	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	13-Mar-01	5:45	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Mar-01	19:08	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	27-Mar-01	5:00	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	10-Apr-01	4:55	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	24-Apr-01	5:00	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	08-May-01	5:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	13-May-01	5:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	22-May-01	4:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	24-May-01	19:00	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	03-Jun-01	5:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	10	

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Laboratory	03-Jun-01	5:20	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	10	
Laboratory	03-Jun-01	5:48	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Jun-01	4:35	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	21-Jun-01	19:05	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	03-Jul-01	4:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	08-Jul-01	5:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	17-Jul-01	4:50	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	17-Jul-01	4:50	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	31-Jul-01	4:35	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	31-Jul-01	4:35	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	14-Aug-01	4:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Aug-01	4:30	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	11-Sep-01	4:20	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	25-Sep-01	4:00	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	09-Oct-01	4:25	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	23-Oct-01	4:35	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	06-Nov-01	4:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Nov-01	18:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	04-Dec-01	4:40	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Dec-01	5:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	20-Dec-01	16:30	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	23-Dec-01	5:10	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	08-Jan-02	4:22	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	22-Jan-02	4:25	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Feb-02	4:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Feb-02	4:30	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Mar-02	4:15	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Mar-02	5:10	Chlorpyrifos	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Mar-02	5:35	Chlorpyrifos	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Nov-00	4:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Laboratory	28-Nov-00	4:20	Diazinon	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Nov-00	4:20	Diazinon	BS	Freshwater		111.28	ng/L	20	
Laboratory	28-Nov-00	4:20	Diazinon	BSD	Freshwater		109.54	ng/L	20	
Laboratory	05-Dec-00	4:55	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Dec-00	4:55	Diazinon	BS	Freshwater		59.27	ng/L	20	
Laboratory	12-Dec-00	4:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	12-Dec-00	4:15	Diazinon	BS	Freshwater		118.50	ng/L	20	
Laboratory	19-Dec-00	5:05	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Jan-01	4:44	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Jan-01	4:44	Diazinon	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	30-Jan-01	4:55	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	01-Feb-01	19:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	04-Feb-01	6:25	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Feb-01	19:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	18-Feb-01	5:38	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	01-Mar-01	7:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	07-Mar-01	5:16	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	13-Mar-01	5:45	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Mar-01	19:08	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	27-Mar-01	5:00	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	10-Apr-01	4:55	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	24-Apr-01	5:00	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	08-May-01	5:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	13-May-01	5:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	22-May-01	4:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	24-May-01	19:00	Diazinon	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	03-Jun-01	5:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	10	
Laboratory	19-Jun-01	4:35	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	21-Jun-01	19:05	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	03-Jul-01	4:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Laboratory	08-Jul-01	5:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	17-Jul-01	4:50	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	17-Jul-01	4:50	Diazinon	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	31-Jul-01	4:35	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	31-Jul-01	4:35	Diazinon	BD	Freshwater	ND	-99.00	ng/L	20	
Laboratory	14-Aug-01	4:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	28-Aug-01	4:30	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	11-Sep-01	4:20	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	25-Sep-01	4:00	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	09-Oct-01	4:25	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	23-Oct-01	4:35	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	06-Nov-01	4:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	15-Nov-01	18:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	04-Dec-01	4:40	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	16-Dec-01	5:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	20-Dec-01	16:30	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	23-Dec-01	5:10	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	08-Jan-02	4:22	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	22-Jan-02	4:25	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Feb-02	4:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Feb-02	4:30	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	05-Mar-02	4:15	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Mar-02	5:10	Diazinon	B	Freshwater	ND	-99.00	ng/L	20	
Laboratory	19-Mar-02	5:35	Diazinon	BD	Freshwater	ND	-99.00	ng/L	20	

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	19-Dec-00	4:45	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	8.61
Technology + Education	19-Dec-00	4:45	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	8.61
Technology + Education	19-Dec-00	4:45	Chlorpyrifos	SPK	Freshwater		118.87	ng/L	20	
Technology + Education	30-Jan-01	4:55	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	2.01
Technology + Education	30-Jan-01	4:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	2.01
Technology + Education	30-Jan-01	4:55	Chlorpyrifos	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	01-Feb-01	19:40	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	3.83
Technology + Education	01-Feb-01	19:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.83
Technology + Education	01-Feb-01	19:40	Chlorpyrifos	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	04-Feb-01	6:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	6.16
Technology + Education	15-Feb-01	19:40	Chlorpyrifos	Result	Freshwater		29.04	ng/L	20	4.48
Technology + Education	15-Feb-01	19:40	Chlorpyrifos	DUP	Freshwater		27.65	ng/L	20	4.48
Technology + Education	15-Feb-01	19:40	Chlorpyrifos	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	20-Feb-01	5:10	Chlorpyrifos	Result	Freshwater		29.94	ng/L	20	1.81
Technology + Education	10-Apr-01	5:10	Chlorpyrifos	DUP	Freshwater		56.79	ng/L	20	1.47
Technology + Education	10-Apr-01	5:10	Chlorpyrifos	Result	Freshwater		52.32	ng/L	20	1.47
Technology + Education	10-Apr-01	5:10	Chlorpyrifos	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	12-Apr-01	19:15	Chlorpyrifos	Result	Freshwater		30.16	ng/L	20	3.79
Technology + Education	15-Apr-01	5:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.18
Technology + Education	26-Apr-01	19:25	Chlorpyrifos	Result	Freshwater		11.07	ng/L	20	15.00
Technology + Education	29-Apr-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	24.11
Technology + Education	08-May-01	5:45	Chlorpyrifos	Result	Freshwater		90.59	ng/L	10	10.53
Technology + Education	10-May-01	19:20	Chlorpyrifos	DUP	Freshwater		32.58	ng/L	10	5.49
Technology + Education	10-May-01	19:20	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	10-May-01	19:20	Chlorpyrifos	Result	Freshwater		32.47	ng/L	10	5.49
Technology + Education	13-May-01	5:22	Chlorpyrifos	Result	Freshwater		20.86	ng/L	10	20.72
Technology + Education	22-May-01	5:25	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	10	16.16
Technology + Education	22-May-01	5:25	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	22-May-01	5:25	Chlorpyrifos	Result	Freshwater		10.57	ng/L	10	16.16
Technology + Education	24-May-01	19:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	21.02

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	24-May-01	19:00	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	10	21.02
Technology + Education	24-May-01	19:00	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	03-Jun-01	5:48	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	18.67
Technology + Education	03-Jun-01	5:48	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	50	18.67
Technology + Education	05-Jun-01	4:50	Chlorpyrifos	Result	Freshwater		13.82	ng/L	10	0.30
Technology + Education	07-Jun-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	0.68
Technology + Education	10-Jun-01	5:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	0.40
Technology + Education	10-Jun-01	5:30	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	10	0.40
Technology + Education	10-Jun-01	5:30	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	19-Jun-01	4:35	Chlorpyrifos	Result	Freshwater		204.30	ng/L	20	2.18
Technology + Education	21-Jun-01	19:20	Chlorpyrifos	Result	Freshwater		213.73	ng/L	20	3.04
Technology + Education	24-Jun-01	5:45	Chlorpyrifos	DUP	Freshwater		150.24	ng/L	20	2.14
Technology + Education	24-Jun-01	5:45	Chlorpyrifos	Result	Freshwater		160.13	ng/L	20	2.14
Technology + Education	24-Jun-01	5:45	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	03-Jul-01	4:40	Chlorpyrifos	Result	Freshwater		48.99	ng/L	20	2.76
Technology + Education	05-Jul-01	19:20	Chlorpyrifos	Result	Freshwater		52.42	ng/L	20	2.12
Technology + Education	08-Jul-01	5:44	Chlorpyrifos	Result	Freshwater		62.20	ng/L	20	2.64
Technology + Education	08-Jul-01	5:44	Chlorpyrifos	DUP	Freshwater		62.25	ng/L	20	2.64
Technology + Education	08-Jul-01	5:44	Chlorpyrifos	SPK	Freshwater		1000.00	ng/L	20	
Technology + Education	19-Jul-01	19:11	Chlorpyrifos	Result	Freshwater		123.16	ng/L	20	2.37
Technology + Education	22-Jul-01	6:25	Chlorpyrifos	DUP	Freshwater		52.93	ng/L	20	2.26
Technology + Education	22-Jul-01	6:25	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	22-Jul-01	6:25	Chlorpyrifos	Result	Freshwater		52.10	ng/L	20	2.26
Technology + Education	02-Sep-01	5:50	Chlorpyrifos	Result	Freshwater		16.12	ng/L	20	4.12
Technology + Education	02-Sep-01	5:50	Chlorpyrifos	DUP	Freshwater		16.18	ng/L	20	4.12
Technology + Education	02-Sep-01	5:50	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	11-Sep-01	4:50	Chlorpyrifos	Result	Freshwater		12.96	ng/L	20	1.91
Technology + Education	13-Sep-01	19:05	Chlorpyrifos	Result	Freshwater		11.56	ng/L	20	1.81
Technology + Education	16-Sep-01	5:50	Chlorpyrifos	Result	Freshwater		16.39	ng/L	20	2.70
Technology + Education	16-Sep-01	5:50	Chlorpyrifos	DUP	Freshwater		15.19	ng/L	20	2.70

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	16-Sep-01	5:50	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	25-Sep-01	4:50	Chlorpyrifos	Result	Freshwater		16.00	ng/L	20	6.63
Technology + Education	27-Sep-01	19:17	Chlorpyrifos	Result	Freshwater		11.81	ng/L	20	4.99
Technology + Education	30-Sep-01	5:45	Chlorpyrifos	DUP	Freshwater		12.56	ng/L	20	1.57
Technology + Education	30-Sep-01	5:45	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	30-Sep-01	5:45	Chlorpyrifos	Result	Freshwater		13.42	ng/L	20	1.57
Technology + Education	09-Oct-01	4:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.16
Technology + Education	11-Oct-01	19:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	4.07
Technology + Education	14-Oct-01	5:30	Chlorpyrifos	DUP	Freshwater		10.46	ng/L	20	4.06
Technology + Education	14-Oct-01	5:30	Chlorpyrifos	Result	Freshwater		10.32	ng/L	20	4.06
Technology + Education	14-Oct-01	5:30	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	23-Oct-01	4:58	Chlorpyrifos	Result	Freshwater		27.70	ng/L	20	10.81
Technology + Education	28-Oct-01	5:45	Chlorpyrifos	DUP	Freshwater		16.13	ng/L	20	14.77
Technology + Education	28-Oct-01	5:45	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	28-Oct-01	5:45	Chlorpyrifos	Result	Freshwater		17.16	ng/L	20	14.77
Technology + Education	06-Nov-01	5:00	Chlorpyrifos	Result	Freshwater		65.83	ng/L	20	8.79
Technology + Education	15-Nov-01	19:15	Chlorpyrifos	Result	Freshwater		17.90	ng/L	20	3.05
Technology + Education	20-Nov-01	5:15	Chlorpyrifos	Result	Freshwater		13.75	ng/L	20	0.72
Technology + Education	18-Dec-01	4:46	Chlorpyrifos	DUP	Freshwater		53.79	ng/L	20	0.39
Technology + Education	18-Dec-01	4:46	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	18-Dec-01	4:46	Chlorpyrifos	Result	Freshwater		52.71	ng/L	20	0.39
Technology + Education	20-Dec-01	16:53	Chlorpyrifos	DUP	Freshwater		23.65	ng/L	20	3.16
Technology + Education	20-Dec-01	16:53	Chlorpyrifos	Result	Freshwater		24.69	ng/L	20	3.16
Technology + Education	20-Dec-01	16:53	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	08-Jan-02	4:49	Chlorpyrifos	Result	Freshwater		11.09	ng/L	20	5.43
Technology + Education	10-Jan-02	18:10	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	7.19
Technology + Education	13-Jan-02	6:00	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	6.78
Technology + Education	13-Jan-02	6:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	6.78
Technology + Education	13-Jan-02	6:00	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	22-Jan-02	5:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	9.29

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	24-Jan-02	17:27	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	13.47
Technology + Education	27-Jan-02	6:25	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	10.15
Technology + Education	27-Jan-02	6:25	Chlorpyrifos	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	27-Jan-02	6:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	10.15
Technology + Education	05-Feb-02	4:28	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	10.22
Technology + Education	07-Feb-02	17:45	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	15.70
Technology + Education	19-Feb-02	5:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	7.21
Technology + Education	21-Feb-02	16:48	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	7.51
Technology + Education	09-Apr-02	7:05	Chlorpyrifos	Result	Freshwater		44.10	ng/L	10	5.13
Technology + Education	11-Apr-02	17:00	Chlorpyrifos	Result	Freshwater		47.60	ng/L	10	2.39
Technology + Education	14-Apr-02	6:45	Chlorpyrifos	Result	Freshwater		50.90	ng/L	10	5.02
Technology + Education	23-Apr-02	4:35	Chlorpyrifos	Result	Freshwater		7.50	ng/L	10	3.61
Technology + Education	25-Apr-02	16:43	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.85
Technology + Education	28-Apr-02	6:30	Chlorpyrifos	Result	Freshwater		20.40	ng/L	10	8.70
Technology + Education	07-May-02	4:38	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	0.93
Technology + Education	09-May-02	17:00	Chlorpyrifos	Result	Freshwater		10.30	ng/L	10	3.71
Technology + Education	12-May-02	6:25	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	10.51
Technology + Education	21-May-02	5:05	Chlorpyrifos	Result	Freshwater		18.20	ng/L	10	4.63
Technology + Education	23-May-02	17:15	Chlorpyrifos	Result	Freshwater		9.50	ng/L	10	3.28
Technology + Education	04-Jun-02	4:45	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	1.00
Technology + Education	09-Jun-02	6:30	Chlorpyrifos	Result	Freshwater		11.60	ng/L	10	2.01
Technology + Education	18-Jun-02	5:30	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	5.43
Technology + Education	20-Jun-02	16:50	Chlorpyrifos	Result	Freshwater		16.40	ng/L	10	3.90
Technology + Education	23-Jun-02	6:00	Chlorpyrifos	Result	Freshwater		16.45	ng/L	10	5.34
Technology + Education	09-Jul-02	5:15	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	5.16
Technology + Education	11-Jul-02	17:50	Chlorpyrifos	Result	Freshwater		166.00	ng/L	10	5.24
Technology + Education	14-Jul-02	6:00	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	3.73
Technology + Education	23-Jul-02	5:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.86
Technology + Education	25-Jul-02	18:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.55
Technology + Education	28-Jul-02	6:28	Chlorpyrifos	Result	Freshwater		9.20	ng/L	10	4.31

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	06-Aug-02	5:35	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	1.22
Technology + Education	08-Aug-02	17:35	Chlorpyrifos	Result	Freshwater		30.60	ng/L	10	5.30
Technology + Education	18-Aug-02	6:35	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	2.15
Technology + Education	20-Aug-02	5:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	5.88
Technology + Education	22-Aug-02	17:57	Chlorpyrifos	Result	Freshwater		31.90	ng/L	10	4.77
Technology + Education	25-Aug-02	6:55	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	16.10
Technology + Education	03-Sep-02	6:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	3.98
Technology + Education	05-Sep-02	18:00	Chlorpyrifos	Result	Freshwater		3.60	ng/L	10	4.24
Technology + Education	08-Sep-02	6:00	Chlorpyrifos	Result	Freshwater		14.90	ng/L	10	3.32
Technology + Education	17-Sep-02	5:30	Chlorpyrifos	Result	Freshwater		16.30	ng/L	10	0.59
Technology + Education	19-Sep-02	17:40	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	3.73
Technology + Education	22-Sep-02	7:10	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	3.99
Technology + Education	08-Oct-02	4:30	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	2.01
Technology + Education	10-Oct-02	16:15	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.77
Technology + Education	20-Oct-02	4:55	Chlorpyrifos	Result	Freshwater		20.30	ng/L	10	1.86
Technology + Education	22-Oct-02	5:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	1.45
Technology + Education	24-Oct-02	17:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	1.98
Technology + Education	27-Oct-02	6:38	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	2.12
Technology + Education	05-Nov-02	5:20	Chlorpyrifos	Result	Freshwater		14.00	ng/L	10	0.35
Technology + Education	10-Nov-02	5:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	3.21
Technology + Education	19-Nov-02	5:20	Chlorpyrifos	Result	Freshwater		23.00	ng/L	10	1.29
Technology + Education	21-Nov-02	17:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	2.63
Technology + Education	25-Nov-02	6:30	Chlorpyrifos	Result	Freshwater		47.10	ng/L	10	0.97
Technology + Education	19-Dec-00	4:45	Diazinon	DUP	Freshwater		1103.46	ng/L	20	8.61
Technology + Education	19-Dec-00	4:45	Diazinon	Result	Freshwater		1151.54	ng/L	20	8.61
Technology + Education	19-Dec-00	4:45	Diazinon	SPK	Freshwater		1243.62	ng/L	20	
Technology + Education	30-Jan-01	4:55	Diazinon	DUP	Freshwater		173.05	ng/L	20	2.01
Technology + Education	30-Jan-01	4:55	Diazinon	Result	Freshwater		180.10	ng/L	20	2.01
Technology + Education	30-Jan-01	4:55	Diazinon	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	01-Feb-01	19:40	Diazinon	DUP	Freshwater		509.53	ng/L	20	3.83

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	01-Feb-01	19:40	Diazinon	Result	Freshwater		507.36	ng/L	20	3.83
Technology + Education	01-Feb-01	19:40	Diazinon	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	04-Feb-01	6:25	Diazinon	Result	Freshwater		184.81	ng/L	20	6.16
Technology + Education	15-Feb-01	19:40	Diazinon	Result	Freshwater		62.75	ng/L	20	4.48
Technology + Education	15-Feb-01	19:40	Diazinon	DUP	Freshwater		60.57	ng/L	20	4.48
Technology + Education	15-Feb-01	19:40	Diazinon	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	20-Feb-01	5:10	Diazinon	Result	Freshwater		550.72	ng/L	20	1.81
Technology + Education	10-Apr-01	5:10	Diazinon	DUP	Freshwater		5660.17	ng/L	20	1.47
Technology + Education	10-Apr-01	5:10	Diazinon	Result	Freshwater		5611.52	ng/L	20	1.47
Technology + Education	10-Apr-01	5:10	Diazinon	SPK	Freshwater		100.00	ng/L	20	
Technology + Education	12-Apr-01	19:15	Diazinon	Result	Freshwater		514.02	ng/L	20	3.79
Technology + Education	15-Apr-01	5:30	Diazinon	Result	Freshwater		314.93	ng/L	20	5.18
Technology + Education	26-Apr-01	19:25	Diazinon	Result	Freshwater		128.11	ng/L	20	15.00
Technology + Education	29-Apr-01	5:15	Diazinon	Result	Freshwater		499.47	ng/L	20	24.11
Technology + Education	08-May-01	5:45	Diazinon	Result	Freshwater		105.90	ng/L	10	10.53
Technology + Education	10-May-01	19:20	Diazinon	DUP	Freshwater		144.99	ng/L	10	5.49
Technology + Education	10-May-01	19:20	Diazinon	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	10-May-01	19:20	Diazinon	Result	Freshwater		158.74	ng/L	10	5.49
Technology + Education	13-May-01	5:22	Diazinon	Result	Freshwater	ND	-99.00	ng/L	10	20.72
Technology + Education	22-May-01	5:25	Diazinon	DUP	Freshwater		4218.82	ng/L	10	16.16
Technology + Education	22-May-01	5:25	Diazinon	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	22-May-01	5:25	Diazinon	Result	Freshwater		4341.09	ng/L	10	16.16
Technology + Education	24-May-01	19:00	Diazinon	Result	Freshwater		174.56	ng/L	10	21.02
Technology + Education	24-May-01	19:00	Diazinon	DUP	Freshwater		185.34	ng/L	10	21.02
Technology + Education	24-May-01	19:00	Diazinon	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	03-Jun-01	5:48	Diazinon	Result	Freshwater		2086.52	ng/L	50	18.67
Technology + Education	03-Jun-01	5:48	Diazinon	Result	Freshwater		2442.03	ng/L	10	18.67
Technology + Education	05-Jun-01	4:50	Diazinon	Result	Freshwater		145.03	ng/L	10	0.30
Technology + Education	07-Jun-01	5:15	Diazinon	Result	Freshwater		156.82	ng/L	10	0.68
Technology + Education	10-Jun-01	5:30	Diazinon	Result	Freshwater		1528.50	ng/L	20	0.40

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	10-Jun-01	5:30	Diazinon	DUP	Freshwater		1502.82	ng/L	20	0.40
Technology + Education	10-Jun-01	5:30	Diazinon	SPK	Freshwater		200.00	ng/L	10	
Technology + Education	19-Jun-01	4:35	Diazinon	Result	Freshwater		80.96	ng/L	20	2.18
Technology + Education	21-Jun-01	19:20	Diazinon	Result	Freshwater		345.40	ng/L	20	3.04
Technology + Education	24-Jun-01	5:45	Diazinon	DUP	Freshwater		59.27	ng/L	20	2.14
Technology + Education	24-Jun-01	5:45	Diazinon	Result	Freshwater		58.25	ng/L	20	2.14
Technology + Education	24-Jun-01	5:45	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	03-Jul-01	4:40	Diazinon	Result	Freshwater		145.60	ng/L	20	2.76
Technology + Education	05-Jul-01	19:20	Diazinon	Result	Freshwater		195.27	ng/L	20	2.12
Technology + Education	08-Jul-01	5:44	Diazinon	Result	Freshwater		1935.94	ng/L	20	2.64
Technology + Education	08-Jul-01	5:44	Diazinon	DUP	Freshwater		1879.72	ng/L	20	2.64
Technology + Education	08-Jul-01	5:44	Diazinon	SPK	Freshwater		1000.00	ng/L	20	
Technology + Education	19-Jul-01	19:11	Diazinon	Result	Freshwater		658.10	ng/L	20	2.37
Technology + Education	22-Jul-01	6:25	Diazinon	DUP	Freshwater		247.82	ng/L	20	2.26
Technology + Education	22-Jul-01	6:25	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	22-Jul-01	6:25	Diazinon	Result	Freshwater		255.90	ng/L	20	2.26
Technology + Education	02-Sep-01	5:50	Diazinon	Result	Freshwater		118.66	ng/L	20	4.12
Technology + Education	02-Sep-01	5:50	Diazinon	DUP	Freshwater		114.86	ng/L	20	4.12
Technology + Education	02-Sep-01	5:50	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	11-Sep-01	4:50	Diazinon	Result	Freshwater		303.80	ng/L	20	1.91
Technology + Education	13-Sep-01	19:05	Diazinon	Result	Freshwater		427.08	ng/L	20	1.81
Technology + Education	16-Sep-01	5:50	Diazinon	Result	Freshwater		125.75	ng/L	20	2.70
Technology + Education	16-Sep-01	5:50	Diazinon	DUP	Freshwater		128.75	ng/L	20	2.70
Technology + Education	16-Sep-01	5:50	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	25-Sep-01	4:50	Diazinon	Result	Freshwater		100.43	ng/L	20	6.63
Technology + Education	27-Sep-01	19:17	Diazinon	Result	Freshwater		198.41	ng/L	20	4.99
Technology + Education	30-Sep-01	5:45	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	30-Sep-01	5:45	Diazinon	DUP	Freshwater		149.82	ng/L	20	1.57
Technology + Education	30-Sep-01	5:45	Diazinon	Result	Freshwater		153.89	ng/L	20	1.57
Technology + Education	09-Oct-01	4:55	Diazinon	Result	Freshwater		328.81	ng/L	20	3.16

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	11-Oct-01	19:15	Diazinon	Result	Freshwater		603.29	ng/L	20	4.07
Technology + Education	14-Oct-01	5:30	Diazinon	DUP	Freshwater		504.16	ng/L	20	4.06
Technology + Education	14-Oct-01	5:30	Diazinon	Result	Freshwater		469.82	ng/L	20	4.06
Technology + Education	14-Oct-01	5:30	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	23-Oct-01	4:58	Diazinon	Result	Freshwater		288.41	ng/L	20	10.81
Technology + Education	28-Oct-01	5:45	Diazinon	DUP	Freshwater		3125.60	ng/L	20	14.77
Technology + Education	28-Oct-01	5:45	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	28-Oct-01	5:45	Diazinon	Result	Freshwater		2683.86	ng/L	20	14.77
Technology + Education	06-Nov-01	5:00	Diazinon	Result	Freshwater		465.47	ng/L	20	8.79
Technology + Education	15-Nov-01	19:15	Diazinon	Result	Freshwater		128.86	ng/L	20	3.05
Technology + Education	20-Nov-01	5:15	Diazinon	Result	Freshwater		399.37	ng/L	20	0.72
Technology + Education	18-Dec-01	4:46	Diazinon	DUP	Freshwater		567.72	ng/L	20	0.39
Technology + Education	18-Dec-01	4:46	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	18-Dec-01	4:46	Diazinon	Result	Freshwater		533.39	ng/L	20	0.39
Technology + Education	20-Dec-01	16:53	Diazinon	DUP	Freshwater		1059.21	ng/L	20	3.16
Technology + Education	20-Dec-01	16:53	Diazinon	Result	Freshwater		1068.03	ng/L	20	3.16
Technology + Education	20-Dec-01	16:53	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	08-Jan-02	4:49	Diazinon	Result	Freshwater		28.94	ng/L	20	5.43
Technology + Education	10-Jan-02	18:10	Diazinon	Result	Freshwater		79.87	ng/L	20	7.19
Technology + Education	13-Jan-02	6:00	Diazinon	DUP	Freshwater		46.04	ng/L	20	6.78
Technology + Education	13-Jan-02	6:00	Diazinon	Result	Freshwater		46.04	ng/L	20	6.78
Technology + Education	13-Jan-02	6:00	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	22-Jan-02	5:00	Diazinon	Result	Freshwater		136.41	ng/L	20	9.29
Technology + Education	24-Jan-02	17:27	Diazinon	Result	Freshwater		184.77	ng/L	20	13.47
Technology + Education	27-Jan-02	6:25	Diazinon	DUP	Freshwater		160.95	ng/L	20	10.15
Technology + Education	27-Jan-02	6:25	Diazinon	SPK	Freshwater		200.00	ng/L	20	
Technology + Education	27-Jan-02	6:25	Diazinon	Result	Freshwater		167.45	ng/L	20	10.15
Technology + Education	05-Feb-02	4:28	Diazinon	Result	Freshwater		48.91	ng/L	20	10.22
Technology + Education	07-Feb-02	17:45	Diazinon	Result	Freshwater		218.30	ng/L	20	15.70
Technology + Education	19-Feb-02	5:00	Diazinon	Result	Freshwater		173.65	ng/L	20	7.21

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	21-Feb-02	16:48	Diazinon	Result	Freshwater		211.59	ng/L	20	7.51
Technology + Education	09-Apr-02	7:05	Diazinon	Result	Freshwater		831.00	ng/L	10	5.13
Technology + Education	11-Apr-02	17:00	Diazinon	Result	Freshwater		290.00	ng/L	10	2.39
Technology + Education	14-Apr-02	6:45	Diazinon	Result	Freshwater		257.00	ng/L	10	5.02
Technology + Education	23-Apr-02	4:35	Diazinon	Result	Freshwater		787.00	ng/L	10	3.61
Technology + Education	25-Apr-02	16:43	Diazinon	Result	Freshwater		39.10	ng/L	10	4.85
Technology + Education	28-Apr-02	6:30	Diazinon	Result	Freshwater		424.00	ng/L	10	8.70
Technology + Education	07-May-02	4:38	Diazinon	Result	Freshwater		164.00	ng/L	10	0.93
Technology + Education	09-May-02	17:00	Diazinon	Result	Freshwater		128.00	ng/L	10	3.71
Technology + Education	12-May-02	6:25	Diazinon	Result	Freshwater		168.00	ng/L	10	10.51
Technology + Education	21-May-02	5:05	Diazinon	Result	Freshwater		225.00	ng/L	10	4.63
Technology + Education	23-May-02	17:15	Diazinon	Result	Freshwater		313.00	ng/L	10	3.28
Technology + Education	04-Jun-02	4:45	Diazinon	Result	Freshwater		3921.50	ng/L	10	1.00
Technology + Education	09-Jun-02	6:30	Diazinon	Result	Freshwater		390.00	ng/L	10	2.01
Technology + Education	18-Jun-02	5:30	Diazinon	Result	Freshwater		218.00	ng/L	10	5.43
Technology + Education	20-Jun-02	16:50	Diazinon	Result	Freshwater		290.00	ng/L	10	3.90
Technology + Education	23-Jun-02	6:00	Diazinon	Result	Freshwater		3378.50	ng/L	10	5.34
Technology + Education	09-Jul-02	5:15	Diazinon	Result	Freshwater		1398.00	ng/L	10	5.16
Technology + Education	11-Jul-02	17:50	Diazinon	Result	Freshwater		16590.00	ng/L	10	5.24
Technology + Education	14-Jul-02	6:00	Diazinon	Result	Freshwater		282.00	ng/L	10	3.73
Technology + Education	23-Jul-02	5:20	Diazinon	Result	Freshwater		114.00	ng/L	10	4.86
Technology + Education	25-Jul-02	18:20	Diazinon	Result	Freshwater		917.00	ng/L	10	4.55
Technology + Education	28-Jul-02	6:28	Diazinon	Result	Freshwater		2516.00	ng/L	10	4.31
Technology + Education	06-Aug-02	5:35	Diazinon	Result	Freshwater		238.00	ng/L	10	1.22
Technology + Education	08-Aug-02	17:35	Diazinon	Result	Freshwater		2651.00	ng/L	10	5.30
Technology + Education	18-Aug-02	6:35	Diazinon	Result	Freshwater		841.00	ng/L	10	2.15
Technology + Education	20-Aug-02	5:05	Diazinon	Result	Freshwater		292.50	ng/L	10	5.88
Technology + Education	22-Aug-02	17:57	Diazinon	Result	Freshwater		774.00	ng/L	10	4.77
Technology + Education	25-Aug-02	6:55	Diazinon	Result	Freshwater		6.10	ng/L	10	16.10
Technology + Education	03-Sep-02	6:05	Diazinon	Result	Freshwater		171.00	ng/L	10	3.98

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Technology + Education	05-Sep-02	18:00	Diazinon	Result	Freshwater		134.00	ng/L	10	4.24
Technology + Education	08-Sep-02	6:00	Diazinon	Result	Freshwater		442.00	ng/L	10	3.32
Technology + Education	17-Sep-02	5:30	Diazinon	Result	Freshwater		1271.00	ng/L	10	0.59
Technology + Education	19-Sep-02	17:40	Diazinon	Result	Freshwater		660.00	ng/L	10	3.73
Technology + Education	22-Sep-02	7:10	Diazinon	Result	Freshwater		979.00	ng/L	10	3.99
Technology + Education	08-Oct-02	4:30	Diazinon	Result	Freshwater		223.00	ng/L	10	2.01
Technology + Education	10-Oct-02	16:15	Diazinon	Result	Freshwater		159.00	ng/L	10	4.77
Technology + Education	20-Oct-02	4:55	Diazinon	Result	Freshwater		190.00	ng/L	10	1.86
Technology + Education	22-Oct-02	5:25	Diazinon	Result	Freshwater		228.00	ng/L	10	1.45
Technology + Education	24-Oct-02	17:25	Diazinon	Result	Freshwater		96.30	ng/L	10	1.98
Technology + Education	27-Oct-02	6:38	Diazinon	Result	Freshwater		220.00	ng/L	10	2.12
Technology + Education	05-Nov-02	5:20	Diazinon	Result	Freshwater		487.00	ng/L	10	0.35
Technology + Education	10-Nov-02	5:55	Diazinon	Result	Freshwater		197.00	ng/L	10	3.21
Technology + Education	19-Nov-02	5:20	Diazinon	Result	Freshwater		1660.00	ng/L	10	1.29
Technology + Education	21-Nov-02	17:15	Diazinon	Result	Freshwater		77.80	ng/L	10	2.63
Technology + Education	25-Nov-02	6:30	Diazinon	Result	Freshwater		151.00	ng/L	10	0.97

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	04-Feb-01	6:38	Chlorpyrifos	Result	Freshwater		65.00	ng/L	20	3.42
Control	15-Feb-01	19:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	25.24
Control	18-Feb-01	5:38	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	9.76
Control	20-Feb-01	6:05	Chlorpyrifos	Result	Freshwater		85.41	ng/L	20	53.51
Control	01-Mar-01	7:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	28.93
Control	04-Mar-01	6:10	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	7.25
Control	07-Mar-01	5:16	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.28
Control	13-Mar-01	5:45	Chlorpyrifos	Result	Freshwater		125.25	ng/L	20	6.84
Control	15-Mar-01	18:55	Chlorpyrifos	Result	Freshwater		74.86	ng/L	20	16.15
Control	18-Mar-01	5:30	Chlorpyrifos	Result	Freshwater		146.90	ng/L	20	13.62
Control	29-Mar-01	19:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	2.67
Control	10-Apr-01	4:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	14.43
Control	12-Apr-01	19:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.94
Control	24-Apr-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.46
Control	26-Apr-01	19:06	Chlorpyrifos	Result	Freshwater		9.30	ng/L	20	1.86
Control	29-Apr-01	5:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.76
Control	10-May-01	19:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	95.66
Control	13-May-01	5:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	60.78
Control	22-May-01	4:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	94.65
Control	24-May-01	19:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	104.67
Control	03-Jun-01	6:03	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	4.17
Control	05-Jun-01	5:21	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	1.26
Control	07-Jun-01	5:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	2.27
Control	07-Jun-01	5:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	50	2.27
Control	10-Jun-01	5:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.35
Control	19-Jun-01	4:50	Chlorpyrifos	Result	Freshwater		73.00	ng/L	20	6.10
Control	21-Jun-01	19:35	Chlorpyrifos	Result	Freshwater		52.99	ng/L	20	11.53
Control	24-Jun-01	5:55	Chlorpyrifos	Result	Freshwater		22.94	ng/L	20	9.83
Control	03-Jul-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	11.80
Control	08-Jul-01	5:20	Chlorpyrifos	Result	Freshwater		283.00	ng/L	20	15.20

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	17-Jul-01	5:40	Chlorpyrifos	Result	Freshwater		19.28	ng/L	20	15.67
Control	19-Jul-01	19:24	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	12.96
Control	22-Jul-01	6:34	Chlorpyrifos	Result	Freshwater		139.12	ng/L	20	16.57
Control	28-Aug-01	4:43	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	52.17
Control	30-Aug-01	19:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	51.07
Control	02-Sep-01	5:55	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	42.40
Control	11-Sep-01	4:35	Chlorpyrifos	Result	Freshwater		16.47	ng/L	20	5.71
Control	13-Sep-01	18:55	Chlorpyrifos	Result	Freshwater		18.54	ng/L	20	11.22
Control	16-Sep-01	5:20	Chlorpyrifos	Result	Freshwater		14.91	ng/L	20	11.97
Control	25-Sep-01	5:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	12.31
Control	27-Sep-01	19:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	10.87
Control	30-Sep-01	6:04	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	17.46
Control	09-Oct-01	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	14.46
Control	11-Oct-01	19:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.09
Control	14-Oct-01	5:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.83
Control	23-Oct-01	4:50	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	12.81
Control	25-Oct-01	19:04	Chlorpyrifos	Result	Freshwater		10.51	ng/L	20	10.73
Control	28-Oct-01	5:55	Chlorpyrifos	Result	Freshwater		10.24	ng/L	20	9.88
Control	06-Nov-01	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	19.22
Control	08-Nov-01	19:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	14.55
Control	15-Nov-01	18:55	Chlorpyrifos	Result	Freshwater		67.69	ng/L	20	33.91
Control	20-Nov-01	5:05	Chlorpyrifos	Result	Freshwater		33.12	ng/L	20	59.87
Control	25-Nov-01	6:40	Chlorpyrifos	Result	Freshwater		40.39	ng/L	20	166.11
Control	04-Dec-01	4:50	Chlorpyrifos	Result	Freshwater		30.95	ng/L	20	5.71
Control	06-Dec-01	16:45	Chlorpyrifos	Result	Freshwater		15.65	ng/L	20	1.68
Control	16-Dec-01	5:30	Chlorpyrifos	Result	Freshwater		24.13	ng/L	20	20.73
Control	18-Dec-01	4:34	Chlorpyrifos	Result	Freshwater		22.97	ng/L	20	8.40
Control	20-Dec-01	16:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	33.01
Control	23-Dec-01	5:20	Chlorpyrifos	Result	Freshwater		23.54	ng/L	20	5.21
Control	08-Jan-02	4:22	Chlorpyrifos	Result	Freshwater		23.36	ng/L	20	7.13

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	10-Jan-02	17:52	Chlorpyrifos	Result	Freshwater		8.54	ng/L	20	5.28
Control	13-Jan-02	6:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	8.45
Control	05-Feb-02	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	8.13
Control	07-Feb-02	18:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	10.63
Control	19-Feb-02	4:45	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.54
Control	21-Feb-02	17:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	6.95
Control	24-Feb-02	6:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	4.71
Control	05-Mar-02	4:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	2.77
Control	07-Mar-02	17:25	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	110.44
Control	19-Mar-02	5:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.99
Control	21-Mar-02	17:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.62
Control	24-Mar-02	6:05	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	2.02
Control	09-Apr-02	4:45	Chlorpyrifos	Result	Freshwater		7.30	ng/L	10	6.69
Control	11-Apr-02	17:30	Chlorpyrifos	Result	Freshwater		4.80	ng/L	10	6.83
Control	14-Apr-02	7:02	Chlorpyrifos	Result	Freshwater		6.80	ng/L	10	13.64
Control	23-Apr-02	4:35	Chlorpyrifos	Result	Freshwater		15.00	ng/L	10	7.41
Control	07-May-02	4:26	Chlorpyrifos	Result	Freshwater		13.50	ng/L	10	7.04
Control	09-May-02	17:10	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	6.83
Control	21-May-02	4:15	Chlorpyrifos	Result	Freshwater		11.90	ng/L	10	15.82
Control	23-May-02	17:35	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	21.51
Control	26-May-02	7:00	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	10.98
Control	06-Jun-02	18:30	Chlorpyrifos	Result	Freshwater		12.25	ng/L	10	10.30
Control	18-Jun-02	5:15	Chlorpyrifos	Result	Freshwater		22.60	ng/L	10	21.45
Control	23-Jun-02	6:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	20.30
Control	09-Jul-02	5:30	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	32.81
Control	11-Jul-02	18:10	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	60.44
Control	14-Jul-02	6:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	85.02
Control	23-Jul-02	5:30	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.52
Control	25-Jul-02	18:30	Chlorpyrifos	Result	Freshwater		15.00	ng/L	10	5.04
Control	28-Jul-02	5:56	Chlorpyrifos	Result	Freshwater		17.40	ng/L	10	6.00

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	06-Aug-02	5:45	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	22.99
Control	08-Aug-02	17:50	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	18.24
Control	18-Aug-02	6:50	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	16.07
Control	20-Aug-02	5:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	11.78
Control	22-Aug-02	18:10	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	11.70
Control	25-Aug-02	7:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	9.28
Control	03-Sep-02	5:55	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	3.57
Control	05-Sep-02	18:05	Chlorpyrifos	Result	Freshwater		14.80	ng/L	10	19.71
Control	08-Sep-02	5:50	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	6.81
Control	17-Sep-02	5:45	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	11.07
Control	19-Sep-02	17:55	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	9.31
Control	22-Sep-02	6:55	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	14.58
Control	08-Oct-02	4:30	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	10.15
Control	20-Oct-02	5:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	9.84
Control	22-Oct-02	5:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	9.97
Control	24-Oct-02	17:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	9.71
Control	27-Oct-02	6:55	Chlorpyrifos	Result	Freshwater		11.50	ng/L	10	9.06
Control	05-Nov-02	5:35	Chlorpyrifos	Result	Freshwater		17.20	ng/L	10	9.20
Control	10-Nov-02	6:10	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	74.70
Control	21-Nov-02	17:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	14.32
Control	25-Nov-02	6:16	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	18.21
Control	04-Feb-01	6:38	Diazinon	Result	Freshwater		41401.58	ng/L	20	3.42
Control	15-Feb-01	19:25	Diazinon	Result	Freshwater		55.96	ng/L	20	25.24
Control	18-Feb-01	5:38	Diazinon	Result	Freshwater		103.35	ng/L	20	9.76
Control	20-Feb-01	6:05	Diazinon	Result	Freshwater		3267.81	ng/L	20	53.51
Control	01-Mar-01	7:20	Diazinon	Result	Freshwater		42.31	ng/L	20	28.93
Control	04-Mar-01	6:10	Diazinon	Result	Freshwater		84.03	ng/L	20	7.25
Control	07-Mar-01	5:16	Diazinon	Result	Freshwater		235.64	ng/L	20	5.28
Control	13-Mar-01	5:45	Diazinon	Result	Freshwater		152.91	ng/L	20	6.84
Control	15-Mar-01	18:55	Diazinon	Result	Freshwater		164.02	ng/L	20	16.15

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	18-Mar-01	5:30	Diazinon	Result	Freshwater		295.58	ng/L	20	13.62
Control	29-Mar-01	19:15	Diazinon	Result	Freshwater		695.09	ng/L	20	2.67
Control	10-Apr-01	5:35	Diazinon	Result	Freshwater		3854.37	ng/L	20	14.43
Control	12-Apr-01	19:00	Diazinon	Result	Freshwater		1994.71	ng/L	20	1.94
Control	24-Apr-01	5:15	Diazinon	Result	Freshwater		117.80	ng/L	20	3.46
Control	26-Apr-01	19:06	Diazinon	Result	Freshwater		227.03	ng/L	20	1.86
Control	29-Apr-01	5:30	Diazinon	Result	Freshwater		179.36	ng/L	20	3.76
Control	10-May-01	19:35	Diazinon	Result	Freshwater		212.58	ng/L	10	95.66
Control	13-May-01	5:35	Diazinon	Result	Freshwater		81.09	ng/L	10	60.78
Control	22-May-01	4:55	Diazinon	Result	Freshwater		51.08	ng/L	10	94.65
Control	24-May-01	19:15	Diazinon	Result	Freshwater	ND	-99.00	ng/L	10	104.67
Control	03-Jun-01	6:03	Diazinon	Result	Freshwater		164.83	ng/L	10	4.17
Control	05-Jun-01	5:21	Diazinon	Result	Freshwater		890.50	ng/L	10	1.26
Control	07-Jun-01	5:30	Diazinon	Result	Freshwater		1192.41	ng/L	50	2.27
Control	07-Jun-01	5:30	Diazinon	Result	Freshwater		1391.94	ng/L	10	2.27
Control	10-Jun-01	5:35	Diazinon	Result	Freshwater		490.34	ng/L	20	1.35
Control	19-Jun-01	4:50	Diazinon	Result	Freshwater		1094.82	ng/L	20	6.10
Control	21-Jun-01	19:35	Diazinon	Result	Freshwater		221.22	ng/L	20	11.53
Control	24-Jun-01	5:55	Diazinon	Result	Freshwater		170.99	ng/L	20	9.83
Control	03-Jul-01	5:15	Diazinon	Result	Freshwater		184.94	ng/L	20	11.80
Control	08-Jul-01	5:20	Diazinon	Result	Freshwater		3039.15	ng/L	20	15.20
Control	17-Jul-01	5:40	Diazinon	Result	Freshwater		1478.47	ng/L	20	15.67
Control	19-Jul-01	19:24	Diazinon	Result	Freshwater		648.85	ng/L	20	12.96
Control	22-Jul-01	6:34	Diazinon	Result	Freshwater		4363.23	ng/L	20	16.57
Control	28-Aug-01	4:43	Diazinon	Result	Freshwater		813.56	ng/L	20	52.17
Control	30-Aug-01	19:25	Diazinon	Result	Freshwater		225.34	ng/L	20	51.07
Control	02-Sep-01	5:55	Diazinon	Result	Freshwater		391.21	ng/L	20	42.40
Control	11-Sep-01	4:35	Diazinon	Result	Freshwater		230.69	ng/L	20	5.71
Control	13-Sep-01	18:55	Diazinon	Result	Freshwater		680.46	ng/L	20	11.22
Control	16-Sep-01	5:20	Diazinon	Result	Freshwater		983.39	ng/L	20	11.97

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	25-Sep-01	5:20	Diazinon	Result	Freshwater		3750.36	ng/L	20	12.31
Control	27-Sep-01	19:30	Diazinon	Result	Freshwater		997.53	ng/L	20	10.87
Control	30-Sep-01	6:04	Diazinon	Result	Freshwater		3026.96	ng/L	20	17.46
Control	09-Oct-01	4:40	Diazinon	Result	Freshwater		1082.13	ng/L	20	14.46
Control	11-Oct-01	19:25	Diazinon	Result	Freshwater		344.48	ng/L	20	3.09
Control	14-Oct-01	5:20	Diazinon	Result	Freshwater		792.29	ng/L	20	5.83
Control	23-Oct-01	4:50	Diazinon	Result	Freshwater		272.45	ng/L	20	12.81
Control	25-Oct-01	19:04	Diazinon	Result	Freshwater		338.22	ng/L	20	10.73
Control	28-Oct-01	5:55	Diazinon	Result	Freshwater		912.41	ng/L	20	9.88
Control	06-Nov-01	4:40	Diazinon	Result	Freshwater		729.64	ng/L	20	19.22
Control	08-Nov-01	19:15	Diazinon	Result	Freshwater		2508.08	ng/L	20	14.55
Control	15-Nov-01	18:55	Diazinon	Result	Freshwater		182.23	ng/L	20	33.91
Control	20-Nov-01	5:05	Diazinon	Result	Freshwater		223.95	ng/L	20	59.87
Control	25-Nov-01	6:40	Diazinon	Result	Freshwater		378.04	ng/L	20	166.11
Control	04-Dec-01	4:50	Diazinon	Result	Freshwater		54.85	ng/L	20	5.71
Control	06-Dec-01	16:45	Diazinon	Result	Freshwater		83.97	ng/L	20	1.68
Control	16-Dec-01	5:30	Diazinon	Result	Freshwater		134.70	ng/L	20	20.73
Control	18-Dec-01	4:34	Diazinon	Result	Freshwater		29.24	ng/L	20	8.40
Control	20-Dec-01	16:40	Diazinon	Result	Freshwater		433.73	ng/L	20	33.01
Control	23-Dec-01	5:20	Diazinon	Result	Freshwater		50.47	ng/L	20	5.21
Control	08-Jan-02	4:22	Diazinon	Result	Freshwater		29.88	ng/L	20	7.13
Control	10-Jan-02	17:52	Diazinon	Result	Freshwater		58.68	ng/L	20	5.28
Control	13-Jan-02	6:15	Diazinon	Result	Freshwater		121.33	ng/L	20	8.45
Control	05-Feb-02	4:40	Diazinon	Result	Freshwater		589.06	ng/L	20	8.13
Control	07-Feb-02	18:00	Diazinon	Result	Freshwater		134.63	ng/L	20	10.63
Control	19-Feb-02	4:45	Diazinon	Result	Freshwater		83.58	ng/L	20	5.54
Control	21-Feb-02	17:00	Diazinon	Result	Freshwater		97.36	ng/L	20	6.95
Control	24-Feb-02	6:35	Diazinon	Result	Freshwater		86.72	ng/L	20	4.71
Control	05-Mar-02	4:30	Diazinon	Result	Freshwater		107.50	ng/L	20	2.77
Control	07-Mar-02	17:25	Diazinon	Result	Freshwater		41.55	ng/L	20	110.44

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	19-Mar-02	5:35	Diazinon	Result	Freshwater		5582.90	ng/L	20	1.99
Control	21-Mar-02	17:40	Diazinon	Result	Freshwater		5499.40	ng/L	20	1.62
Control	24-Mar-02	6:05	Diazinon	Result	Freshwater		487.57	ng/L	20	2.02
Control	09-Apr-02	4:45	Diazinon	Result	Freshwater		498.00	ng/L	10	6.69
Control	11-Apr-02	17:30	Diazinon	Result	Freshwater		474.00	ng/L	10	6.83
Control	14-Apr-02	7:02	Diazinon	Result	Freshwater		434.00	ng/L	10	13.64
Control	23-Apr-02	4:35	Diazinon	Result	Freshwater		348.00	ng/L	10	7.41
Control	07-May-02	4:26	Diazinon	Result	Freshwater		79.50	ng/L	10	7.04
Control	09-May-02	17:10	Diazinon	Result	Freshwater		382.00	ng/L	10	6.83
Control	21-May-02	4:15	Diazinon	Result	Freshwater		425.00	ng/L	10	15.82
Control	23-May-02	17:35	Diazinon	Result	Freshwater		128.00	ng/L	10	21.51
Control	26-May-02	7:00	Diazinon	Result	Freshwater		289.00	ng/L	10	10.98
Control	06-Jun-02	18:30	Diazinon	Result	Freshwater		652.00	ng/L	10	10.30
Control	18-Jun-02	5:15	Diazinon	Result	Freshwater		1975.00	ng/L	10	21.45
Control	23-Jun-02	6:20	Diazinon	Result	Freshwater		200.00	ng/L	10	20.30
Control	09-Jul-02	5:30	Diazinon	Result	Freshwater		405.00	ng/L	10	32.81
Control	11-Jul-02	18:10	Diazinon	Result	Freshwater		184.00	ng/L	10	60.44
Control	14-Jul-02	6:05	Diazinon	Result	Freshwater		155.00	ng/L	10	85.02
Control	23-Jul-02	5:30	Diazinon	Result	Freshwater		1161.00	ng/L	10	4.52
Control	25-Jul-02	18:30	Diazinon	Result	Freshwater		884.00	ng/L	10	5.04
Control	28-Jul-02	5:56	Diazinon	Result	Freshwater		801.00	ng/L	10	6.00
Control	06-Aug-02	5:45	Diazinon	Result	Freshwater		218.00	ng/L	10	22.99
Control	08-Aug-02	17:50	Diazinon	Result	Freshwater		215.00	ng/L	10	18.24
Control	18-Aug-02	6:50	Diazinon	Result	Freshwater		154.00	ng/L	10	16.07
Control	20-Aug-02	5:20	Diazinon	Result	Freshwater		5754.00	ng/L	10	11.78
Control	22-Aug-02	18:10	Diazinon	Result	Freshwater		888.00	ng/L	10	11.70
Control	25-Aug-02	7:05	Diazinon	Result	Freshwater		845.00	ng/L	10	9.28
Control	03-Sep-02	5:55	Diazinon	Result	Freshwater		1034.00	ng/L	10	3.57
Control	05-Sep-02	18:05	Diazinon	Result	Freshwater		498.00	ng/L	10	19.71
Control	08-Sep-02	5:50	Diazinon	Result	Freshwater		377.00	ng/L	10	6.81

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Control	17-Sep-02	5:45	Diazinon	Result	Freshwater		403.00	ng/L	10	11.07
Control	19-Sep-02	17:55	Diazinon	Result	Freshwater		464.00	ng/L	10	9.31
Control	22-Sep-02	6:55	Diazinon	Result	Freshwater		181.00	ng/L	10	14.58
Control	08-Oct-02	4:30	Diazinon	Result	Freshwater		65.40	ng/L	10	10.15
Control	20-Oct-02	5:20	Diazinon	Result	Freshwater		124.00	ng/L	10	9.84
Control	22-Oct-02	5:40	Diazinon	Result	Freshwater		134.00	ng/L	10	9.97
Control	24-Oct-02	17:35	Diazinon	Result	Freshwater		170.00	ng/L	10	9.71
Control	27-Oct-02	6:55	Diazinon	Result	Freshwater		336.00	ng/L	10	9.06
Control	05-Nov-02	5:35	Diazinon	Result	Freshwater		192.00	ng/L	10	9.20
Control	10-Nov-02	6:10	Diazinon	Result	Freshwater		84.80	ng/L	10	74.70
Control	21-Nov-02	17:35	Diazinon	Result	Freshwater		112.00	ng/L	10	14.32
Control	25-Nov-02	6:16	Diazinon	Result	Freshwater		791.00	ng/L	10	18.21

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	04-Feb-01	5:45	Chlorpyrifos	Result	Freshwater		51.92	ng/L	20	4.43
Education Only	15-Feb-01	19:10	Chlorpyrifos	Result	Freshwater		152.07	ng/L	20	9.06
Education Only	18-Feb-01	5:15	Chlorpyrifos	Result	Freshwater		179.20	ng/L	20	12.39
Education Only	20-Feb-01	4:45	Chlorpyrifos	Result	Freshwater		27.28	ng/L	20	4.99
Education Only	01-Mar-01	7:40	Chlorpyrifos	Result	Freshwater		135.35	ng/L	20	2.58
Education Only	04-Mar-01	5:45	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.55
Education Only	07-Mar-01	4:58	Chlorpyrifos	Result	Freshwater		76.56	ng/L	20	22.58
Education Only	13-Mar-01	4:33	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.36
Education Only	15-Mar-01	19:28	Chlorpyrifos	DUP	Freshwater		468.76	ng/L	20	4.14
Education Only	15-Mar-01	19:28	Chlorpyrifos	Result	Freshwater		434.61	ng/L	20	4.14
Education Only	15-Mar-01	19:28	Chlorpyrifos	SPK	Freshwater		100.00	ng/L	20	
Education Only	18-Mar-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	9.61
Education Only	27-Mar-01	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	1.46
Education Only	29-Mar-01	19:03	Chlorpyrifos	Result	Freshwater		49.28	ng/L	20	2.93
Education Only	01-Apr-01	6:55	Chlorpyrifos	Result	Freshwater		98.02	ng/L	20	1.75
Education Only	10-Apr-01	5:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.76
Education Only	12-Apr-01	19:22	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.39
Education Only	15-Apr-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	3.13
Education Only	24-Apr-01	5:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	12.84
Education Only	26-Apr-01	19:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	8.42
Education Only	29-Apr-01	5:03	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	5.80
Education Only	08-May-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	3.29
Education Only	10-May-01	19:09	Chlorpyrifos	Result	Freshwater		30.46	ng/L	10	3.41
Education Only	13-May-01	5:15	Chlorpyrifos	DUP	Freshwater	ND	-99.00	ng/L	20	14.03
Education Only	13-May-01	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	14.03
Education Only	22-May-01	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	10.78
Education Only	24-May-01	19:29	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	7.71
Education Only	03-Jun-01	5:20	Chlorpyrifos	Result	Freshwater		39.92	ng/L	20	101.14
Education Only	03-Jun-01	5:20	Chlorpyrifos	Result	Freshwater		39.92	ng/L	10	101.14
Education Only	03-Jun-01	5:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	50	101.14

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	05-Jun-01	4:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	50	14.52
Education Only	05-Jun-01	4:35	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	14.52
Education Only	07-Jun-01	5:00	Chlorpyrifos	Result	Freshwater		43.78	ng/L	10	25.36
Education Only	10-Jun-01	5:15	Chlorpyrifos	Result	Freshwater		31.10	ng/L	20	16.52
Education Only	19-Jun-01	5:10	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	86.27
Education Only	21-Jun-01	19:05	Chlorpyrifos	Result	Freshwater		28.49	ng/L	20	35.56
Education Only	24-Jun-01	5:35	Chlorpyrifos	Result	Freshwater		18.33	ng/L	20	51.35
Education Only	03-Jul-01	5:45	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	116.99
Education Only	05-Jul-01	19:39	Chlorpyrifos	Result	Freshwater		12.59	ng/L	20	89.33
Education Only	08-Jul-01	5:50	Chlorpyrifos	Result	Freshwater		10.16	ng/L	20	84.09
Education Only	17-Jul-01	4:50	Chlorpyrifos	Result	Freshwater		100.54	ng/L	20	36.64
Education Only	19-Jul-01	19:00	Chlorpyrifos	Result	Freshwater		109.57	ng/L	20	48.70
Education Only	22-Jul-01	6:20	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	98.45
Education Only	11-Sep-01	4:20	Chlorpyrifos	Result	Freshwater		40.14	ng/L	20	1.43
Education Only	16-Sep-01	5:05	Chlorpyrifos	Result	Freshwater		36.47	ng/L	20	5.56
Education Only	25-Sep-01	4:22	Chlorpyrifos	Result	Freshwater		27.13	ng/L	20	48.10
Education Only	27-Sep-01	19:05	Chlorpyrifos	Result	Freshwater		37.01	ng/L	20	32.48
Education Only	30-Sep-01	5:35	Chlorpyrifos	Result	Freshwater		75.37	ng/L	20	21.22
Education Only	14-Oct-01	5:40	Chlorpyrifos	Result	Freshwater		37.63	ng/L	20	60.33
Education Only	23-Oct-01	4:35	Chlorpyrifos	Result	Freshwater		87.46	ng/L	20	3.06
Education Only	25-Oct-01	19:20	Chlorpyrifos	Result	Freshwater		53.48	ng/L	20	5.55
Education Only	28-Oct-01	5:30	Chlorpyrifos	Result	Freshwater		47.42	ng/L	20	7.15
Education Only	06-Nov-01	4:27	Chlorpyrifos	Result	Freshwater		38.85	ng/L	20	4.42
Education Only	08-Nov-01	18:45	Chlorpyrifos	Result	Freshwater		51.91	ng/L	20	25.93
Education Only	15-Nov-01	18:40	Chlorpyrifos	Result	Freshwater		4114.63	ng/L	20	7.52
Education Only	20-Nov-01	4:45	Chlorpyrifos	Result	Freshwater		620.90	ng/L	20	6.02
Education Only	25-Nov-01	6:05	Chlorpyrifos	Result	Freshwater		77.16	ng/L	20	16.03
Education Only	04-Dec-01	4:40	Chlorpyrifos	Result	Freshwater		27.99	ng/L	20	1.46
Education Only	06-Dec-01	17:00	Chlorpyrifos	Result	Freshwater		16.31	ng/L	20	0.91
Education Only	16-Dec-01	5:15	Chlorpyrifos	Result	Freshwater		99.07	ng/L	20	8.61

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	18-Dec-01	4:19	Chlorpyrifos	Result	Freshwater		47.48	ng/L	20	2.72
Education Only	20-Dec-01	16:30	Chlorpyrifos	Result	Freshwater		50.45	ng/L	20	20.97
Education Only	13-Jan-02	5:50	Chlorpyrifos	Result	Freshwater		14.84	ng/L	20	6.80
Education Only	22-Jan-02	4:25	Chlorpyrifos	Result	Freshwater		19.35	ng/L	20	8.29
Education Only	27-Jan-02	6:15	Chlorpyrifos	Result	Freshwater		14.55	ng/L	20	270.43
Education Only	19-Feb-02	4:30	Chlorpyrifos	Result	Freshwater		32.65	ng/L	20	4.55
Education Only	21-Feb-02	16:30	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	8.03
Education Only	24-Feb-02	6:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	20	11.65
Education Only	05-Mar-02	4:15	Chlorpyrifos	Result	Freshwater		10.14	ng/L	20	5.91
Education Only	07-Mar-02	16:50	Chlorpyrifos	Result	Freshwater		95.57	ng/L	20	7.84
Education Only	19-Mar-02	5:10	Chlorpyrifos	Result	Freshwater		159.14	ng/L	20	15.54
Education Only	21-Mar-02	17:10	Chlorpyrifos	Result	Freshwater		126.27	ng/L	20	19.70
Education Only	09-Apr-02	7:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	14.07
Education Only	11-Apr-02	16:40	Chlorpyrifos	Result	Freshwater		16.10	ng/L	10	5.72
Education Only	14-Apr-02	6:30	Chlorpyrifos	Result	Freshwater		8.10	ng/L	10	2.70
Education Only	23-Apr-02	4:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	8.63
Education Only	07-May-02	4:38	Chlorpyrifos	Result	Freshwater		28.90	ng/L	10	4.27
Education Only	09-May-02	16:45	Chlorpyrifos	Result	Freshwater		22.70	ng/L	10	2.11
Education Only	12-May-02	6:10	Chlorpyrifos	Result	Freshwater		50.80	ng/L	10	1.61
Education Only	26-May-02	6:30	Chlorpyrifos	Result	Freshwater		22.60	ng/L	10	8.66
Education Only	04-Jun-02	4:05	Chlorpyrifos	Result	Freshwater		31.65	ng/L	10	5.84
Education Only	06-Jun-02	18:45	Chlorpyrifos	Result	Freshwater		4.26	ng/L	10	7.16
Education Only	09-Jun-02	6:15	Chlorpyrifos	Result	Freshwater		142.00	ng/L	10	8.30
Education Only	18-Jun-02	4:55	Chlorpyrifos	Result	Freshwater		14.50	ng/L	10	8.80
Education Only	20-Jun-02	16:30	Chlorpyrifos	Result	Freshwater		40.10	ng/L	10	11.71
Education Only	23-Jun-02	5:45	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.82
Education Only	23-Jul-02	5:05	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	7.39
Education Only	25-Jul-02	18:10	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	7.48
Education Only	28-Jul-02	5:30	Chlorpyrifos	Result	Freshwater		42.30	ng/L	10	6.50
Education Only	06-Aug-02	5:20	Chlorpyrifos	Result	Freshwater		37.40	ng/L	10	11.36

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	08-Aug-02	17:20	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	4.45
Education Only	18-Aug-02	6:25	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	5.10
Education Only	20-Aug-02	4:55	Chlorpyrifos	Result	Freshwater		104.00	ng/L	10	7.12
Education Only	22-Aug-02	17:45	Chlorpyrifos	Result	Freshwater		65.70	ng/L	10	4.29
Education Only	25-Aug-02	6:35	Chlorpyrifos	Result	Freshwater		60.40	ng/L	10	9.28
Education Only	03-Sep-02	5:45	Chlorpyrifos	Result	Freshwater		9.80	ng/L	10	16.29
Education Only	05-Sep-02	17:40	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	8.52
Education Only	08-Sep-02	5:35	Chlorpyrifos	Result	Freshwater		16.50	ng/L	10	8.63
Education Only	17-Sep-02	5:55	Chlorpyrifos	Result	Freshwater		57.90	ng/L	10	25.71
Education Only	19-Sep-02	17:25	Chlorpyrifos	Result	Freshwater		16.90	ng/L	10	11.72
Education Only	22-Sep-02	6:35	Chlorpyrifos	Result	Freshwater		0.01	ng/L	10	7.27
Education Only	20-Oct-02	4:40	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	18.90
Education Only	22-Oct-02	5:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	9.77
Education Only	24-Oct-02	17:15	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	37.45
Education Only	27-Oct-02	6:27	Chlorpyrifos	Result	Freshwater		13.50	ng/L	10	26.30
Education Only	05-Nov-02	5:05	Chlorpyrifos	Result	Freshwater		26.10	ng/L	10	1.28
Education Only	10-Nov-02	5:45	Chlorpyrifos	Result	Freshwater		20.80	ng/L	10	851.34
Education Only	19-Nov-02	5:16	Chlorpyrifos	Result	Freshwater		37.60	ng/L	10	1.44
Education Only	21-Nov-02	17:00	Chlorpyrifos	Result	Freshwater		13.70	ng/L	10	1.70
Education Only	25-Nov-02	6:00	Chlorpyrifos	Result	Freshwater	ND	-99.00	ng/L	10	1.24
Education Only	04-Feb-01	5:45	Diazinon	Result	Freshwater		2734.13	ng/L	20	4.43
Education Only	15-Feb-01	19:10	Diazinon	Result	Freshwater		282.42	ng/L	20	9.06
Education Only	18-Feb-01	5:15	Diazinon	Result	Freshwater		313.95	ng/L	20	12.39
Education Only	20-Feb-01	4:45	Diazinon	Result	Freshwater		554.80	ng/L	20	4.99
Education Only	01-Mar-01	7:40	Diazinon	Result	Freshwater		95.75	ng/L	20	2.58
Education Only	04-Mar-01	5:45	Diazinon	Result	Freshwater		255.05	ng/L	20	3.55
Education Only	07-Mar-01	4:58	Diazinon	Result	Freshwater		219.24	ng/L	20	22.58
Education Only	13-Mar-01	4:33	Diazinon	Result	Freshwater		74.86	ng/L	20	1.36
Education Only	15-Mar-01	19:28	Diazinon	DUP	Freshwater		184.90	ng/L	20	4.14
Education Only	15-Mar-01	19:28	Diazinon	Result	Freshwater		193.86	ng/L	20	4.14

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	15-Mar-01	19:28	Diazinon	SPK	Freshwater		100.00	ng/L	20	
Education Only	18-Mar-01	5:15	Diazinon	Result	Freshwater		229.47	ng/L	20	9.61
Education Only	27-Mar-01	4:40	Diazinon	Result	Freshwater		1405.44	ng/L	20	1.46
Education Only	29-Mar-01	19:03	Diazinon	Result	Freshwater		3460.47	ng/L	20	2.93
Education Only	01-Apr-01	6:55	Diazinon	Result	Freshwater		7910.19	ng/L	20	1.75
Education Only	10-Apr-01	4:55	Diazinon	Result	Freshwater		85.06	ng/L	20	5.76
Education Only	12-Apr-01	19:22	Diazinon	Result	Freshwater		4138.50	ng/L	20	3.39
Education Only	15-Apr-01	5:15	Diazinon	Result	Freshwater		409.96	ng/L	20	3.13
Education Only	24-Apr-01	5:00	Diazinon	Result	Freshwater		282.11	ng/L	20	12.84
Education Only	26-Apr-01	19:35	Diazinon	Result	Freshwater		5111.26	ng/L	20	8.42
Education Only	29-Apr-01	5:03	Diazinon	Result	Freshwater		1007.73	ng/L	20	5.80
Education Only	08-May-01	5:15	Diazinon	Result	Freshwater		652.31	ng/L	10	3.29
Education Only	10-May-01	19:09	Diazinon	Result	Freshwater		955.13	ng/L	10	3.41
Education Only	13-May-01	5:15	Diazinon	Result	Freshwater		1596.97	ng/L	10	14.03
Education Only	13-May-01	5:15	Diazinon	Result	Freshwater		1570.55	ng/L	20	14.03
Education Only	22-May-01	4:40	Diazinon	Result	Freshwater		938.67	ng/L	10	10.78
Education Only	24-May-01	19:29	Diazinon	Result	Freshwater		455.06	ng/L	10	7.71
Education Only	03-Jun-01	5:20	Diazinon	Result	Freshwater		1606.02	ng/L	50	101.14
Education Only	03-Jun-01	5:20	Diazinon	Result	Freshwater		1621.84	ng/L	10	101.14
Education Only	05-Jun-01	4:35	Diazinon	Result	Freshwater		1201.97	ng/L	50	14.52
Education Only	05-Jun-01	4:35	Diazinon	Result	Freshwater		1476.39	ng/L	10	14.52
Education Only	07-Jun-01	5:00	Diazinon	Result	Freshwater		613.98	ng/L	10	25.36
Education Only	10-Jun-01	5:15	Diazinon	Result	Freshwater		4161.41	ng/L	10	16.52
Education Only	19-Jun-01	5:10	Diazinon	Result	Freshwater		60.36	ng/L	20	86.27
Education Only	21-Jun-01	19:05	Diazinon	Result	Freshwater		450.52	ng/L	20	35.56
Education Only	24-Jun-01	5:35	Diazinon	Result	Freshwater		1716.38	ng/L	20	51.35
Education Only	03-Jul-01	5:45	Diazinon	Result	Freshwater		202.73	ng/L	20	116.99
Education Only	05-Jul-01	19:39	Diazinon	Result	Freshwater		120.97	ng/L	20	89.33
Education Only	08-Jul-01	5:50	Diazinon	Result	Freshwater		133.40	ng/L	20	84.09
Education Only	17-Jul-01	4:50	Diazinon	Result	Freshwater		1437.78	ng/L	20	36.64

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	19-Jul-01	19:00	Diazinon	Result	Freshwater		3108.63	ng/L	20	48.70
Education Only	22-Jul-01	6:20	Diazinon	Result	Freshwater		1224.20	ng/L	20	98.45
Education Only	11-Sep-01	4:20	Diazinon	Result	Freshwater		34837.62	ng/L	20	1.43
Education Only	16-Sep-01	5:05	Diazinon	Result	Freshwater		2603.03	ng/L	20	5.56
Education Only	25-Sep-01	4:22	Diazinon	Result	Freshwater		2414.44	ng/L	20	48.10
Education Only	27-Sep-01	19:05	Diazinon	Result	Freshwater		2410.71	ng/L	20	32.48
Education Only	30-Sep-01	5:35	Diazinon	Result	Freshwater		2967.94	ng/L	20	21.22
Education Only	14-Oct-01	5:40	Diazinon	Result	Freshwater		1466.50	ng/L	20	60.33
Education Only	23-Oct-01	4:35	Diazinon	Result	Freshwater		6951.20	ng/L	20	3.06
Education Only	25-Oct-01	19:20	Diazinon	Result	Freshwater		641.41	ng/L	20	5.55
Education Only	28-Oct-01	5:30	Diazinon	Result	Freshwater		4672.54	ng/L	20	7.15
Education Only	06-Nov-01	4:27	Diazinon	Result	Freshwater		1081.72	ng/L	20	4.42
Education Only	08-Nov-01	18:45	Diazinon	Result	Freshwater		6589.35	ng/L	20	25.93
Education Only	15-Nov-01	18:40	Diazinon	Result	Freshwater		1084.76	ng/L	20	7.52
Education Only	20-Nov-01	4:45	Diazinon	Result	Freshwater		944.13	ng/L	20	6.02
Education Only	25-Nov-01	6:05	Diazinon	Result	Freshwater		906.92	ng/L	20	16.03
Education Only	04-Dec-01	4:40	Diazinon	Result	Freshwater		432.57	ng/L	20	1.46
Education Only	06-Dec-01	17:00	Diazinon	Result	Freshwater		3169.99	ng/L	20	0.91
Education Only	16-Dec-01	5:15	Diazinon	Result	Freshwater		619.44	ng/L	20	8.61
Education Only	18-Dec-01	4:19	Diazinon	Result	Freshwater		171.34	ng/L	20	2.72
Education Only	20-Dec-01	16:30	Diazinon	Result	Freshwater		245.12	ng/L	20	20.97
Education Only	13-Jan-02	5:50	Diazinon	Result	Freshwater		255.64	ng/L	20	6.80
Education Only	22-Jan-02	4:25	Diazinon	Result	Freshwater		571.79	ng/L	20	8.29
Education Only	27-Jan-02	6:15	Diazinon	Result	Freshwater		2479.14	ng/L	20	270.43
Education Only	19-Feb-02	4:30	Diazinon	Result	Freshwater		129.56	ng/L	20	4.55
Education Only	21-Feb-02	16:30	Diazinon	Result	Freshwater		126.41	ng/L	20	8.03
Education Only	24-Feb-02	6:15	Diazinon	Result	Freshwater		1506.06	ng/L	20	11.65
Education Only	05-Mar-02	4:15	Diazinon	Result	Freshwater		87.48	ng/L	20	5.91
Education Only	07-Mar-02	16:50	Diazinon	Result	Freshwater		1178.33	ng/L	20	7.84
Education Only	19-Mar-02	5:10	Diazinon	Result	Freshwater		263.94	ng/L	20	15.54

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	21-Mar-02	17:10	Diazinon	Result	Freshwater		1603.45	ng/L	20	19.70
Education Only	09-Apr-02	7:05	Diazinon	Result	Freshwater		153.00	ng/L	10	14.07
Education Only	11-Apr-02	16:40	Diazinon	Result	Freshwater		2097.00	ng/L	10	5.72
Education Only	14-Apr-02	6:30	Diazinon	Result	Freshwater		1629.00	ng/L	10	2.70
Education Only	23-Apr-02	4:20	Diazinon	Result	Freshwater		133.00	ng/L	10	8.63
Education Only	07-May-02	4:38	Diazinon	Result	Freshwater		366.00	ng/L	10	4.27
Education Only	09-May-02	16:45	Diazinon	Result	Freshwater		986.00	ng/L	10	2.11
Education Only	12-May-02	6:10	Diazinon	Result	Freshwater		868.00	ng/L	10	1.61
Education Only	26-May-02	6:30	Diazinon	Result	Freshwater		6151.00	ng/L	10	8.66
Education Only	04-Jun-02	4:05	Diazinon	Result	Freshwater		668.00	ng/L	10	5.84
Education Only	06-Jun-02	18:45	Diazinon	Result	Freshwater		623.50	ng/L	10	7.16
Education Only	09-Jun-02	6:15	Diazinon	Result	Freshwater		546.00	ng/L	10	8.30
Education Only	18-Jun-02	4:55	Diazinon	Result	Freshwater		415.00	ng/L	10	8.80
Education Only	20-Jun-02	16:30	Diazinon	Result	Freshwater		571.00	ng/L	10	11.71
Education Only	23-Jun-02	5:45	Diazinon	Result	Freshwater		2814.00	ng/L	10	4.82
Education Only	23-Jul-02	5:05	Diazinon	Result	Freshwater		792.00	ng/L	10	7.39
Education Only	25-Jul-02	18:10	Diazinon	Result	Freshwater		1095.00	ng/L	10	7.48
Education Only	28-Jul-02	5:30	Diazinon	Result	Freshwater		1083.00	ng/L	10	6.50
Education Only	06-Aug-02	5:20	Diazinon	Result	Freshwater		1006.00	ng/L	10	11.36
Education Only	08-Aug-02	17:20	Diazinon	Result	Freshwater		1338.00	ng/L	10	4.45
Education Only	18-Aug-02	6:25	Diazinon	Result	Freshwater		2263.00	ng/L	10	5.10
Education Only	20-Aug-02	4:55	Diazinon	Result	Freshwater		428.00	ng/L	10	7.12
Education Only	22-Aug-02	17:45	Diazinon	Result	Freshwater		1921.00	ng/L	10	4.29
Education Only	25-Aug-02	6:35	Diazinon	Result	Freshwater		844.00	ng/L	10	9.28
Education Only	03-Sep-02	5:45	Diazinon	Result	Freshwater		218.00	ng/L	10	16.29
Education Only	05-Sep-02	17:40	Diazinon	Result	Freshwater		3763.00	ng/L	10	8.52
Education Only	08-Sep-02	5:35	Diazinon	Result	Freshwater		658.00	ng/L	10	8.63
Education Only	17-Sep-02	5:30	Diazinon	Result	Freshwater		594.00	ng/L	10	25.71
Education Only	19-Sep-02	17:40	Diazinon	Result	Freshwater		1193.00	ng/L	10	11.72
Education Only	22-Sep-02	7:10	Diazinon	Result	Freshwater		1017.00	ng/L	10	7.27

Site	Collection Date	Collection Time	Parameter	Sample Type	Test Material	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)
Education Only	20-Oct-02	4:40	Diazinon	Result	Freshwater		308.00	ng/L	10	18.90
Education Only	22-Oct-02	5:15	Diazinon	Result	Freshwater		245.00	ng/L	10	9.77
Education Only	24-Oct-02	17:15	Diazinon	Result	Freshwater		288.00	ng/L	10	37.45
Education Only	27-Oct-02	6:27	Diazinon	Result	Freshwater		446.00	ng/L	10	26.30
Education Only	05-Nov-02	5:05	Diazinon	Result	Freshwater		249.00	ng/L	10	1.28
Education Only	10-Nov-02	5:45	Diazinon	Result	Freshwater		782.00	ng/L	10	851.34
Education Only	19-Nov-02	5:16	Diazinon	Result	Freshwater		2403.00	ng/L	10	1.44
Education Only	21-Nov-02	17:00	Diazinon	Result	Freshwater		1696.00	ng/L	10	1.70
Education Only	25-Nov-02	6:00	Diazinon	Result	Freshwater		887.00	ng/L	10	1.24

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Technology + Education	07/Apr/2001	6:30	Chlorpyrifos	Runoff	B	ND	-99.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Chlorpyrifos	Runoff	MS		102.9	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Chlorpyrifos	Runoff	MS		116.9	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Chlorpyrifos	Runoff	SPK		100.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Chlorpyrifos	Runoff	Result		45.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:10	Chlorpyrifos	Runoff	Result		69.8	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:30	Chlorpyrifos	Runoff	Result		48.9	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:45	Chlorpyrifos	Runoff	Result		63.1	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:05	Chlorpyrifos	Runoff	Result		42.3	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:25	Chlorpyrifos	Runoff	Result		46.1	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:45	Chlorpyrifos	Runoff	Result		49.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	10:05	Chlorpyrifos	Runoff	Result		60.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	10:25	Chlorpyrifos	Runoff	Result		37.5	ng/L WW	20		111
Technology + Education	07/Apr/2001	11:00	Chlorpyrifos	Runoff	Result		49.7	ng/L WW	20		111
Technology + Education	07/Apr/2001	11:30	Chlorpyrifos	Runoff	Result		48.1	ng/L WW	20		111
Technology + Education	07/Apr/2001	12:00	Chlorpyrifos	Runoff	Result		60.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	12:30	Chlorpyrifos	Runoff	Result		59.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Chlorpyrifos	Runoff	B	ND	-99.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Chlorpyrifos	Runoff	MS		200.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Chlorpyrifos	Runoff	Result		29.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:45	Chlorpyrifos	Runoff	Result		26.4	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:00	Chlorpyrifos	Runoff	Result		29.9	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:15	Chlorpyrifos	Runoff	Result		21.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:30	Chlorpyrifos	Runoff	Result		30.9	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:45	Chlorpyrifos	Runoff	Result		18.4	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:00	Chlorpyrifos	Runoff	Result		19.1	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:15	Chlorpyrifos	Runoff	Result		17.3	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:30	Chlorpyrifos	Runoff	Result		27.4	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:45	Chlorpyrifos	Runoff	Result		16.3	ng/L WW	20		111
Technology + Education	12/Nov/2001	21:00	Chlorpyrifos	Runoff	Result		21.9	ng/L WW	20		111
Technology + Education	12/Nov/2001	21:15	Chlorpyrifos	Runoff	Result		0.0	ng/L WW	20		111
Technology + Education	29/Nov/2002	18:05	Chlorpyrifos	Runoff	Result		228.0	ng/L WW	20	4998.7	0
Technology + Education	29/Nov/2002	18:10	Chlorpyrifos	Runoff	Result		107.0	ng/L WW	10	4974.2	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Technology + Education	29/Nov/2002	18:15	Chlorpyrifos	Runoff	Result		97.8	ng/L WW	10	6055.9	0
Technology + Education	29/Nov/2002	18:20	Chlorpyrifos	Runoff	Result		69.1	ng/L WW	10	3983.3	0
Technology + Education	29/Nov/2002	18:25	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	2255.0	0
Technology + Education	29/Nov/2002	18:30	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	1583.0	0
Technology + Education	29/Nov/2002	19:00	Chlorpyrifos	Runoff	Result		14.8	ng/L WW	10	292.4	0
Technology + Education	29/Nov/2002	19:30	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	510.3	0
Technology + Education	29/Nov/2002	20:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	608.3	0
Technology + Education	29/Nov/2002	20:30	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	1664.3	0
Technology + Education	29/Nov/2002	21:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	3285.7	0
Technology + Education	29/Nov/2002	22:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	214.7	0
Technology + Education	16/Dec/2002	14:50	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	3928.6	0
Technology + Education	16/Dec/2002	14:55	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	4164.3	0
Technology + Education	16/Dec/2002	15:05	Chlorpyrifos	Runoff	Result		263.0	ng/L WW	10	4128.7	0
Technology + Education	16/Dec/2002	15:15	Chlorpyrifos	Runoff	Result		184.0	ng/L WW	10	4957.2	0
Technology + Education	16/Dec/2002	15:45	Chlorpyrifos	Runoff	Result		197.0	ng/L WW	10	8574.4	0
Technology + Education	16/Dec/2002	16:15	Chlorpyrifos	Runoff	Result		212.0	ng/L WW	10	12687.8	0
Technology + Education	16/Dec/2002	16:45	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	6725.1	0
Technology + Education	16/Dec/2002	17:15	Chlorpyrifos	Runoff	Result		47.7	ng/L WW	10	2333.4	0
Technology + Education	16/Dec/2002	17:45	Chlorpyrifos	Runoff	Result		95.7	ng/L WW	10	3159.8	0
Technology + Education	16/Dec/2002	19:15	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	29.2	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Control	07/Apr/2001	8:20	Chlorpyrifos	Runoff	Result		100.5	ng/L WW	20	2923.8	0
Control	07/Apr/2001	8:40	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20	2398.4	0
Control	07/Apr/2001	9:20	Chlorpyrifos	Runoff	Result		107.5	ng/L WW	20	1016.5	0
Control	07/Apr/2001	10:20	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20	1826.2	0
Control	07/Apr/2001	10:40	Chlorpyrifos	Runoff	Result		37.1	ng/L WW	20	915.3	0
Control	07/Apr/2001	11:00	Chlorpyrifos	Runoff	Result		79.6	ng/L WW	20	649.9	0
Control	07/Apr/2001	11:15	Chlorpyrifos	Runoff	Result		30.3	ng/L WW	20	780.3	0
Control	07/Apr/2001	12:15	Chlorpyrifos	Runoff	Result		28.7	ng/L WW	20	381.7	0
Control	12/Nov/2001	18:50	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20		111
Control	12/Nov/2001	19:10	Chlorpyrifos	Runoff	Result		79.0	ng/L WW	20		111
Control	12/Nov/2001	19:30	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20		111
Control	12/Nov/2001	20:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20		111
Control	12/Nov/2001	20:20	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20		111
Control	12/Nov/2001	20:40	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	20		111
Control	29/Nov/2002	19:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	280.4	0
Control	29/Nov/2002	19:15	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	169.2	0
Control	29/Nov/2002	19:45	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	217.6	0
Control	29/Nov/2002	20:15	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	807.1	0
Control	29/Nov/2002	20:44	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	1705.1	0
Control	29/Nov/2002	21:15	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	2046.4	0
Control	29/Nov/2002	22:00	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	358.4	0
Control	16/Dec/2002	15:10	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	2186.4	0
Control	16/Dec/2002	15:15	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	2702.6	0
Control	16/Dec/2002	15:25	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	3806.7	0
Control	16/Dec/2002	15:35	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	3254.1	0
Control	16/Dec/2002	16:05	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	5878.4	0
Control	16/Dec/2002	16:35	Chlorpyrifos	Runoff	Result		30.6	ng/L WW	10	8877.7	0
Control	16/Dec/2002	17:05	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	3820.1	0
Control	16/Dec/2002	17:35	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	4318.7	0
Control	16/Dec/2002	18:35	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	1259.3	0
Control	16/Dec/2002	21:35	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	284.6	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Education Only	07/Apr/2001	8:20	Chlorpyrifos	Runoff	Result		63.5	ng/L WW	20	2339.6	0
Education Only	07/Apr/2001	8:40	Chlorpyrifos	Runoff	Result		98.2	ng/L WW	20	1399.3	0
Education Only	07/Apr/2001	9:20	Chlorpyrifos	Runoff	Result		100.0	ng/L WW	20	3948.1	0
Education Only	07/Apr/2001	10:20	Chlorpyrifos	Runoff	Result		74.1	ng/L WW	20	481.6	0
Education Only	07/Apr/2001	10:40	Chlorpyrifos	Runoff	Result		66.0	ng/L WW	20	228.2	0
Education Only	07/Apr/2001	11:00	Chlorpyrifos	Runoff	Result		77.8	ng/L WW	20	199.0	0
Education Only	07/Apr/2001	11:15	Chlorpyrifos	Runoff	Result		42.6	ng/L WW	20	695.6	0
Education Only	07/Apr/2001	12:15	Chlorpyrifos	Runoff	Result		54.5	ng/L WW	20	215.6	0
Education Only	12/Nov/2001	20:00	Chlorpyrifos	Runoff	Result		55.3	ng/L WW	20		111
Education Only	12/Nov/2001	20:15	Chlorpyrifos	Runoff	Result		49.1	ng/L WW	20		111
Education Only	12/Nov/2001	20:30	Chlorpyrifos	Runoff	Result		92.2	ng/L WW	20		111
Education Only	12/Nov/2001	20:45	Chlorpyrifos	Runoff	Result		47.9	ng/L WW	20		111
Education Only	12/Nov/2001	21:00	Chlorpyrifos	Runoff	Result		75.0	ng/L WW	20		111
Education Only	12/Nov/2001	21:15	Chlorpyrifos	Runoff	Result		65.8	ng/L WW	20		111
Education Only	29/Nov/2002	18:00	Chlorpyrifos	Runoff	Result		237.0	ng/L WW	10	1340.3	0
Education Only	29/Nov/2002	18:15	Chlorpyrifos	Runoff	Result		539.0	ng/L WW	10	8539.9	0
Education Only	29/Nov/2002	18:20	Chlorpyrifos	Runoff	Result		407.0	ng/L WW	10	4888.0	0
Education Only	29/Nov/2002	18:25	Chlorpyrifos	Runoff	Result		307.0	ng/L WW	10	2913.2	0
Education Only	29/Nov/2002	18:30	Chlorpyrifos	Runoff	Result		360.0	ng/L WW	10	1949.6	0
Education Only	29/Nov/2002	18:35	Chlorpyrifos	Runoff	Result		261.0	ng/L WW	10	1617.9	0
Education Only	29/Nov/2002	19:00	Chlorpyrifos	Runoff	Result		184.0	ng/L WW	10	747.8	0
Education Only	29/Nov/2002	19:30	Chlorpyrifos	Runoff	Result		284.0	ng/L WW	10	2114.8	0
Education Only	29/Nov/2002	20:00	Chlorpyrifos	Runoff	Result		181.0	ng/L WW	10	1144.6	0
Education Only	29/Nov/2002	20:30	Chlorpyrifos	Runoff	Result		89.0	ng/L WW	10	3853.6	0
Education Only	29/Nov/2002	21:00	Chlorpyrifos	Runoff	Result		107.0	ng/L WW	10	5900.6	0
Education Only	29/Nov/2002	21:30	Chlorpyrifos	Runoff	Result		290.0	ng/L WW	10	683.9	0
Education Only	16/Dec/2002	14:45	Chlorpyrifos	Runoff	Result	ND	-99.0	ng/L WW	10	6701.7	0
Education Only	16/Dec/2002	14:50	Chlorpyrifos	Runoff	Result		381.0	ng/L WW	10	7057.5	0
Education Only	16/Dec/2002	15:00	Chlorpyrifos	Runoff	Result		186.0	ng/L WW	10	5669.9	0
Education Only	16/Dec/2002	15:10	Chlorpyrifos	Runoff	Result		282.0	ng/L WW	10	6240.6	0
Education Only	16/Dec/2002	15:45	Chlorpyrifos	Runoff	Result		241.0	ng/L WW	10	11408.6	0
Education Only	16/Dec/2002	16:15	Chlorpyrifos	Runoff	Result		275.0	ng/L WW	10	19792.7	0
Education Only	16/Dec/2002	16:45	Chlorpyrifos	Runoff	Result		270.0	ng/L WW	10	4983.2	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Education Only	16/Dec/2002	17:15	Chlorpyrifos	Runoff	Result		254.0	ng/L WW	10	1276.8	0
Education Only	16/Dec/2002	17:45	Chlorpyrifos	Runoff	Result		363.0	ng/L WW	10	2713.0	0
Education Only	16/Dec/2002	21:15	Chlorpyrifos	Runoff	Result		276.0	ng/L WW	10	416.1	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Technology + Education	07/Apr/2001	6:30	Diazinon	Runoff	B	ND	-99.00	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Diazinon	Runoff	BSD	ND	-99.00	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Diazinon	Runoff	MS		113.69	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Diazinon	Runoff	SPK		100.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	6:30	Diazinon	Runoff	Result		888.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:10	Diazinon	Runoff	Result		1521.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:30	Diazinon	Runoff	Result		1186.5	ng/L WW	20		111
Technology + Education	07/Apr/2001	7:45	Diazinon	Runoff	Result		1399.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:05	Diazinon	Runoff	Result		1471.1	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:25	Diazinon	Runoff	Result		1911.3	ng/L WW	20		111
Technology + Education	07/Apr/2001	8:45	Diazinon	Runoff	Result		1983.9	ng/L WW	20		111
Technology + Education	07/Apr/2001	10:05	Diazinon	Runoff	Result		2348.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	10:25	Diazinon	Runoff	Result		2763.0	ng/L WW	20		111
Technology + Education	07/Apr/2001	11:00	Diazinon	Runoff	Result		2202.4	ng/L WW	20		111
Technology + Education	07/Apr/2001	11:30	Diazinon	Runoff	Result		2900.2	ng/L WW	20		111
Technology + Education	07/Apr/2001	12:00	Diazinon	Runoff	Result		4112.3	ng/L WW	20		111
Technology + Education	07/Apr/2001	12:30	Diazinon	Runoff	Result		1492.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Diazinon	Runoff	B	ND	-99.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Diazinon	Runoff	MS		200.0	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:30	Diazinon	Runoff	Result		164.4	ng/L WW	20		111
Technology + Education	12/Nov/2001	18:45	Diazinon	Runoff	Result		207.9	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:00	Diazinon	Runoff	Result		188.3	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:15	Diazinon	Runoff	Result		152.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:30	Diazinon	Runoff	Result		173.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	19:45	Diazinon	Runoff	Result		183.9	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:00	Diazinon	Runoff	Result		143.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:15	Diazinon	Runoff	Result		217.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:30	Diazinon	Runoff	Result		183.6	ng/L WW	20		111
Technology + Education	12/Nov/2001	20:45	Diazinon	Runoff	Result		174.1	ng/L WW	20		111
Technology + Education	12/Nov/2001	21:00	Diazinon	Runoff	Result		190.4	ng/L WW	20		111
Technology + Education	12/Nov/2001	21:15	Diazinon	Runoff	Result		212.8	ng/L WW	20		111
Technology + Education	29/Nov/2002	18:05	Diazinon	Runoff	Result		440.0	ng/L WW	20	4998.7	0
Technology + Education	29/Nov/2002	18:10	Diazinon	Runoff	Result		457.0	ng/L WW	10	4974.2	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Technology + Education	29/Nov/2002	18:15	Diazinon	Runoff	Result		403.0	ng/L WW	10	6055.9	0
Technology + Education	29/Nov/2002	18:20	Diazinon	Runoff	Result		366.0	ng/L WW	10	3983.3	0
Technology + Education	29/Nov/2002	18:25	Diazinon	Runoff	Result		338.0	ng/L WW	10	2255.0	0
Technology + Education	29/Nov/2002	18:30	Diazinon	Runoff	Result		315.0	ng/L WW	10	1583.0	0
Technology + Education	29/Nov/2002	19:00	Diazinon	Runoff	Result		241.0	ng/L WW	10	292.4	0
Technology + Education	29/Nov/2002	19:30	Diazinon	Runoff	Result	ND	-99.0	ng/L WW	10	510.3	0
Technology + Education	29/Nov/2002	20:00	Diazinon	Runoff	Result		193.0	ng/L WW	10	608.3	0
Technology + Education	29/Nov/2002	20:30	Diazinon	Runoff	Result		308.0	ng/L WW	10	1664.3	0
Technology + Education	29/Nov/2002	21:00	Diazinon	Runoff	Result		212.0	ng/L WW	10	3285.7	0
Technology + Education	29/Nov/2002	22:00	Diazinon	Runoff	Result		179.0	ng/L WW	10	214.7	0
Technology + Education	16/Dec/2002	14:50	Diazinon	Runoff	Result		612.0	ng/L WW	10	3928.6	0
Technology + Education	16/Dec/2002	15:05	Diazinon	Runoff	Result		531.0	ng/L WW	10	4128.7	0
Technology + Education	16/Dec/2002	15:15	Diazinon	Runoff	Result		656.0	ng/L WW	10	4957.2	0
Technology + Education	16/Dec/2002	15:45	Diazinon	Runoff	Result		832.0	ng/L WW	10	8574.4	0
Technology + Education	16/Dec/2002	16:15	Diazinon	Runoff	Result		285.0	ng/L WW	10	12687.8	0
Technology + Education	16/Dec/2002	16:45	Diazinon	Runoff	Result		417.0	ng/L WW	10	6725.1	0
Technology + Education	16/Dec/2002	17:15	Diazinon	Runoff	Result		289.0	ng/L WW	10	2333.4	0
Technology + Education	16/Dec/2002	17:45	Diazinon	Runoff	Result		347.0	ng/L WW	10	3159.8	0
Technology + Education	16/Dec/2002	19:15	Diazinon	Runoff	Result		178.0	ng/L WW	10	29.2	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Control	07/Apr/2001	8:20	Diazinon	Runoff	Result		361.2	ng/L WW	20	2923.8	0
Control	07/Apr/2001	8:40	Diazinon	Runoff	Result		325.0	ng/L WW	20	2398.4	0
Control	07/Apr/2001	9:20	Diazinon	Runoff	Result		506.3	ng/L WW	20	1016.5	0
Control	07/Apr/2001	10:20	Diazinon	Runoff	Result		658.5	ng/L WW	20	1826.2	0
Control	07/Apr/2001	10:40	Diazinon	Runoff	Result		430.2	ng/L WW	20	915.3	0
Control	07/Apr/2001	11:00	Diazinon	Runoff	Result		661.1	ng/L WW	20	649.9	0
Control	07/Apr/2001	11:15	Diazinon	Runoff	Result		216.4	ng/L WW	20	780.3	0
Control	07/Apr/2001	12:15	Diazinon	Runoff	Result		684.4	ng/L WW	20	381.7	0
Control	12/Nov/2001	18:50	Diazinon	Runoff	Result		862.9	ng/L WW	20		111
Control	12/Nov/2001	19:10	Diazinon	Runoff	Result		1118.0	ng/L WW	20		111
Control	12/Nov/2001	19:30	Diazinon	Runoff	Result		540.3	ng/L WW	20		111
Control	12/Nov/2001	20:00	Diazinon	Runoff	Result		193.2	ng/L WW	20		111
Control	12/Nov/2001	20:20	Diazinon	Runoff	Result		161.9	ng/L WW	20		111
Control	12/Nov/2001	20:40	Diazinon	Runoff	Result		194.8	ng/L WW	20		111
Control	29/Nov/2002	19:00	Diazinon	Runoff	Result		374.0	ng/L WW	10	280.4	0
Control	29/Nov/2002	19:15	Diazinon	Runoff	Result		292.0	ng/L WW	10	169.2	0
Control	29/Nov/2002	19:45	Diazinon	Runoff	Result		254.0	ng/L WW	10	217.6	0
Control	29/Nov/2002	20:15	Diazinon	Runoff	Result		259.0	ng/L WW	10	807.1	0
Control	29/Nov/2002	20:44	Diazinon	Runoff	Result		292.0	ng/L WW	10	1705.1	0
Control	29/Nov/2002	21:15	Diazinon	Runoff	Result		329.0	ng/L WW	10	2046.4	0
Control	29/Nov/2002	22:00	Diazinon	Runoff	Result		238.0	ng/L WW	10	358.4	0
Control	16/Dec/2002	15:10	Diazinon	Runoff	Result		1659.0	ng/L WW	10	2186.4	0
Control	16/Dec/2002	15:15	Diazinon	Runoff	Result		391.0	ng/L WW	10	2702.6	0
Control	16/Dec/2002	15:25	Diazinon	Runoff	Result		489.0	ng/L WW	10	3806.7	0
Control	16/Dec/2002	15:35	Diazinon	Runoff	Result		528.0	ng/L WW	10	3254.1	0
Control	16/Dec/2002	16:05	Diazinon	Runoff	Result		620.0	ng/L WW	10	5878.4	0
Control	16/Dec/2002	16:35	Diazinon	Runoff	Result		754.0	ng/L WW	10	8877.7	0
Control	16/Dec/2002	17:05	Diazinon	Runoff	Result		687.0	ng/L WW	10	3820.1	0
Control	16/Dec/2002	17:35	Diazinon	Runoff	Result		513.0	ng/L WW	10	4318.7	0
Control	16/Dec/2002	18:35	Diazinon	Runoff	Result		648.0	ng/L WW	10	1259.3	0
Control	16/Dec/2002	21:35	Diazinon	Runoff	Result		61.7	ng/L WW	10	284.6	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Education Only	07/Apr/2001	8:20	Diazinon	Runoff	Result		1233.6	ng/L WW	20	2339.6	0
Education Only	07/Apr/2001	8:40	Diazinon	Runoff	Result		736.6	ng/L WW	20	1399.3	0
Education Only	07/Apr/2001	9:20	Diazinon	Runoff	Result		730.9	ng/L WW	20	3948.1	0
Education Only	07/Apr/2001	10:20	Diazinon	Runoff	Result		720.0	ng/L WW	20	481.6	0
Education Only	07/Apr/2001	10:40	Diazinon	Runoff	Result		636.4	ng/L WW	20	228.2	0
Education Only	07/Apr/2001	11:00	Diazinon	Runoff	Result		667.6	ng/L WW	20	199.0	0
Education Only	07/Apr/2001	11:15	Diazinon	Runoff	Result		583.0	ng/L WW	20	695.6	0
Education Only	07/Apr/2001	12:15	Diazinon	Runoff	Result		505.2	ng/L WW	20	215.6	0
Education Only	12/Nov/2001	20:00	Diazinon	Runoff	Result		255.6	ng/L WW	20		111
Education Only	12/Nov/2001	20:15	Diazinon	Runoff	Result		222.7	ng/L WW	20		111
Education Only	12/Nov/2001	20:30	Diazinon	Runoff	Result		192.4	ng/L WW	20		111
Education Only	12/Nov/2001	20:45	Diazinon	Runoff	Result		182.9	ng/L WW	20		111
Education Only	12/Nov/2001	21:00	Diazinon	Runoff	Result		183.4	ng/L WW	20		111
Education Only	12/Nov/2001	21:15	Diazinon	Runoff	Result		181.1	ng/L WW	20		111
Education Only	29/Nov/2002	18:00	Diazinon	Runoff	Result		472.0	ng/L WW	10	1340.3	0
Education Only	29/Nov/2002	18:15	Diazinon	Runoff	Result		948.0	ng/L WW	10	8539.9	0
Education Only	29/Nov/2002	18:20	Diazinon	Runoff	Result		1382.0	ng/L WW	10	4888.0	0
Education Only	29/Nov/2002	18:25	Diazinon	Runoff	Result		1180.0	ng/L WW	10	2913.2	0
Education Only	29/Nov/2002	18:30	Diazinon	Runoff	Result		1628.0	ng/L WW	10	1949.6	0
Education Only	29/Nov/2002	18:35	Diazinon	Runoff	Result		1445.0	ng/L WW	10	1617.9	0
Education Only	29/Nov/2002	19:00	Diazinon	Runoff	Result		1059.0	ng/L WW	10	747.8	0
Education Only	29/Nov/2002	19:30	Diazinon	Runoff	Result		843.0	ng/L WW	10	2114.8	0
Education Only	29/Nov/2002	20:00	Diazinon	Runoff	Result		1055.0	ng/L WW	10	1144.6	0
Education Only	29/Nov/2002	20:30	Diazinon	Runoff	Result		1574.0	ng/L WW	10	3853.6	0
Education Only	29/Nov/2002	21:00	Diazinon	Runoff	Result		746.0	ng/L WW	10	5900.6	0
Education Only	29/Nov/2002	21:30	Diazinon	Runoff	Result		1683.0	ng/L WW	10	683.9	0
Education Only	16/Dec/2002	14:45	Diazinon	Runoff	Result		2677.5	ng/L WW	10	6701.7	0
Education Only	16/Dec/2002	15:00	Diazinon	Runoff	Result		9204.0	ng/L WW	10	5669.9	0
Education Only	16/Dec/2002	15:10	Diazinon	Runoff	Result		9841.0	ng/L WW	10	6240.6	0
Education Only	16/Dec/2002	15:45	Diazinon	Runoff	Result		4815.0	ng/L WW	10	11408.6	0
Education Only	16/Dec/2002	16:15	Diazinon	Runoff	Result		2526.0	ng/L WW	10	19792.7	0
Education Only	16/Dec/2002	16:45	Diazinon	Runoff	Result		4288.0	ng/L WW	10	4983.2	0
Education Only	16/Dec/2002	17:15	Diazinon	Runoff	Result		2486.0	ng/L WW	10	1276.8	0

Site	Collection Date	Collection Time	Parameter	Test Material	Sample Type	Qualifier	Result	Units	RL/MDL	Mean Daily Flow (GPM)	Flow Rank
Education Only	16/Dec/2002	17:45	Diazinon	Runoff	Result		1959.0	ng/L WW	10	2713.0	0
Education Only	16/Dec/2002	21:15	Diazinon	Runoff	Result		1145.0	ng/L WW	10	416.1	0