CITY OF STOCKTON
DEPARTMENT OF MUNICIPAL UTILITIES
STORM WATER DIVISION

2002/2003 ANNUAL REPORT

September 2003

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CHAPTER 1 - INTRODUCTION AND BACKGROUND INFORMATION

The 1987 amendments to the federal Clean Water Act (CWA) mandated that the U.S. Environmental Protection Agency (EPA) regulate storm water runoff from industrial activities and municipal separate storm sewer systems in two phases. The amendments define storm water discharges as point sources to be permitted under the National Pollutant Discharge Elimination System (NPDES). EPA published the Phase I storm water regulations in November 1990. The regulations required large municipalities (population greater than 250,000) and medium municipalities (population greater than 100,000) to submit a NPDES permit application in two parts. The first part was to contain information regarding existing activities and authorities that address storm water runoff quality. The second part was to contain a comprehensive management program describing controls to be implemented to reduce the discharge of pollutants in urban runoff to the Maximum Extent Practicable (MEP).

The City of Stockton (City) was identified in the Phase I regulations as a medium municipality. The City submitted its Part I application in May 1992 and Part 2 in May 1993 to the Central Valley Regional Water Quality Control Board (Regional Board). In February 1995, the Regional Board adopted a municipal NDPES storm water permit for the City. The permit directs the City to implement its Storm Water Management Program (Program) submitted in its Part 2 application. The City has been implementing its Program since February 1995.

The County of San Joaquin (County) was named as a co-permittee to the City's storm water permit. The Regional Board determined the unincorporated areas of the County, adjacent to the City of Stockton, should also be covered by the storm water program. In February 1993, the Board notified the County of San Joaquin (County) to submit its two-part permit application. The County submitted Part 1 application in February 1995 and its Part 2 in February 1996.

The City's NPDES permit expired on February 1, 2000. The City and County submitted an application to renew the permit on August 3, 1999. A new permit was issued by the Central Valley Regional Water Quality Control Board on October 18, 2002. The new permit requires a substantial change in reporting format. However, since the permit was adopted in the middle of the reporting year and because the overall program will not be in place until the latter part of 2003, the reporting format for this annual report will remain the same as previous years.

In accordance with regulations, the City conducted an assessment of the effectiveness of their Program to reduce pollutants to the MEP. To conduct the assessment, tools were developed for each BMP and used to evaluate the effectiveness of each program element. To summarize the assessment findings,

the format of the this report for the discussion of each of the program elements includes:

- A summary of the regulatory requirements and program element objectives to comply with the regulations,
- A status report on each BMP in the program element that were implemented by each permittee through the 2002/2003 reporting period, and
- Concluding statement on program effectiveness

Best Management Practices (BMP)

The City's Program consists of 35 BMPs that are contained in four key program activities (Figure 1). The final BMPs in the Program were originally part of a much larger list of potential BMPs and were selected based on a screening process that included the following six factors:

1. Ability to meet regulatory requirements – Does the BMP facilitate compliance with the storm water regulations?
2. Effectiveness of the BMP to remove pollutants – Is the BMP effective in removing pollutants of concern?
3. Public Acceptance – Is the BMP acceptable to the community and defined in a manner to gain public support?
4. Ability to implement – does the BMP consider implementation in to existing programs and minimal inter-departmental impacts?
5. Institutional Constraints – Does the BMP provide for minimal institutional constraints, such as utilizing ordinances, policies, and intergovernmental agreements?
6. Cost of implementation – What is the impact on available City funds to implement the BMP, or will the BMP require a significant financial investment?

Using these factors, the BMPs were selected, rated and prioritized. Selecting BMPs using this approach ensured the Program was focused on activities that could be significant sources of pollutants in urban runoff.

CHAPTER 2 – PROGRAM PROGRESS & ASSESSMENT

This chapter provides individual progress reports on each of the four major program elements identified in the Storm Water Management Plan. Those four elements are as follows:

Residential and Commercial Activities
Improper Discharge Activities
Industrial Activities
Construction Activities

For each of these elements, a compilation of all activities that were undertaken to satisfy the requirements of the NPDES Permit will be provided.

2.1 RESIDENTIAL AND COMMERCIAL ACTIVITIES

The federal regulations require the City program to control pollutants in runoff from residential and commercial development. The program addresses the following activities:

- Maintenance activities related to storm water structural controls,
- Design and construction of controls for new development and re-development
- Municipal operation and maintenance activities related to public streets, roads, and highways,
- Design and construction of future storm water basins, and retrofit opportunities for existing basins,
- Municipal facilities
- Chemical handling, use, and disposal methods used by public agencies.

The City's program has 13 BMPs to address these requirements through implementing both structural and nonstructural control measures, as appropriate, depending on the source or activity causing the pollution to occur. The BMPs in the program are as follows:

A1.1 - Channel and Detention Basin Maintenance
A1.2 - Catchbasin, Pipeline, and Pump Station Maintenance
A2.1 - General Plan Policy Statements
A2.2 - Conditions of Approval
A2.3 - MUD/Development Review Committee
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A3.1 - Street Sweeping and Litter Removal
A3.2 - Street Pavement Maintenance and Reconstruction
A4.1 - Existing Structural Controls Evaluation

A4.2 - Proposed Flood Management Projects Evaluation
A6.1 - Pesticides, Herbicides, & Fertilizers Control Program

BMP A1.1- Channel and Detention Basin Maintenance

Maintenance districts have been established in the following industrial areas in order to provide maintenance of the associated basins:

- Arch Road Industrial Park
- Airport Business Park
- Charter Way Industrial Park
- Western Pacific Industrial Park
- Airport Gateway Center

Maintenance activities are conducted predominantly during the summer and early fall. These activities include herbicide application, rodent control, erosion control and removal of vegetation and debris. The debris removed is disposed of in accordance with regulatory requirements. The following chemical usage totals for the Arch Road, Airport Business Park, Western Pacific, Charter Way, and Airport Business Park Basins over the past two reporting years were as follows:

Chemical	2001/02	2002/03
Krovar	65 lbs.	20 lbs
Oust	16 oz.	5 oz.
Roudup Pro	26 qts	14 pts.
Garlon	7 qts.	5.25 pts.
Herbicide Enhancer	9 qts.	0
Dehacinon/Rodent Control	159 lbs	146 lbs
Karmex	0	4 lbs

Slopes and drainage areas are maintained using mechanical methods as a means to promote vegetation growth, lessen erosion, and prevent discharge of chemicals into local waterways.

A1.2 - Catchbasin, Pipeline, and Pump Station Maintenance

The various components of the separate storm water collection, conveyance and pumping system within the City, exclusive of rivers, creeks, and sloughs, are maintained by the City on an as needed basis. The SWMP notes for this BMP that the "*City will continue its existing maintenance program for catch basins, pipelines and pump stations*".

Pipelines and catch basins are cleaned on a rotational as needed. The City's Storm Water Management Plan notes an approximate 3 – 5 year schedule for cleaning of the storm drain system.

The City's Municipal Utilities Department maintains an aggressive maintenance program for the drain system which includes main lines, catch basins, and catch basin laterals. During the past two reporting periods, the following components of the storm drain system were maintained:

	FY2001/02	FY2002/03
Catch basin grates unplugged	609	1,015
Catch basin laterals unplugged	515	125
Main lines unplugged	6	25
Catch basins cleaned	934	1,202
Catch basin laterals cleaned	7,125 L.F.	32,729 L.F.
Main lines cleaned	245,007 L.F.	103,169 L.F.
Lines TV'd	6,415 L.F.	1,918 L.F.

The City's storm drain system includes approximately 500 miles of main lines. Cleaning efforts for main lines are focused on the 24 inch and smaller because they are more likely to plug.

The City's Storm Water Management Plan also notes that pump station/lift station sump cleaning will be bi-annually. There are a total of sixty-two (64) pump stations and lift stations in the City of Stockton Storm Drain System. That is an increase of two pump stations. The Spanos Park West Pump Station (PS-77) and Morada Ranch Pump Station (MS-22). The following 30 pump stations/lift stations were cleaned during the reporting period:

Storm Station	**Date Cleaned**	**Debris Removed (tons)**
Weston Ranch	7/29/02	157.41
Blossom Ranch (Holman & Calaveras)	10/24/02	4.36
Center Street Overpass	4/14/03	7.67
Ryde Ave & Smith Canal	9/12/02	2.31
Anderson & McDougal Canal (I-5)	9/17/02	42.62
Kelly & Mosher Slough	9/17/02	23.77
Stockton Airport Business Center	9/11/02	34.06
Stockton Airport Business Center	9/11/02	32.77
Don Avenue & Mosher Slough	9/30/02	11.68
Bainbridge & Mosher Slough	10/2/02	22.37
Spanos Park - Thornton & Bear Creek (East)	10/17/02	28.13
Spanos Park - Thornton & Bear Creek (East)	10/25/02	13.42
Orange & Sonora	10/25/02	4.33
Legion Park & Smith Canal	10/28/02	31.88
Legion Park & Smith Canal	10/31/02	15.37
Airport Way & Duck Creek	9/17/02	33.52

Airport Way & Duck Creek	9/17/02	15.90
Plymouth & Five Mile Creek	4/11/03	35.25
Charter Way Substation	4/15/03	2.66
Wilson Way Subway	4/16/03	3.11
Wilson Way & Bradford	4/16/03	4.00
Airport Way & Duck Creek	4/17/03	15.58
Somerset & Flemmons	4/22/03	5.91
Stage Coach & Duck Creek	4/23/03	2.94
Grupe Business Park	5/8/03	10.03
Royal Oaks & Bear Creek	6/19/03	198.49
Airport Gateway	6/1/03	5.02
Grupe Business Park	5/8/03	No data
Charter Way Industrial Park	5/15/03	4.00
Stockton Airport Business Center	6/19/03	26.06
	Total	794.62

As the City continues inspection and testing of its system in the older parts of town, additional and/or revised outfall information is obtained. Last year the City noted 117 storm drain outfalls in its system. However, based on a continuing review of the storm drain system, the following revisions must be made to the City's outfall listing:

- 1 existing outfall was added (MM-151)
  2 new outfalls (MS-22 & PS-77) added

This brings the total number of City outfalls to 120. An updated urban outfall listing is provided in Table 1 along with an outfall map in Figure 1. Both the table and figure are in Appendix A. This table lists the City's outfalls along with outfalls belonging to the County of San Joaquin, State of California, and private parties. Figure 1 shows all of the known discharge locations and associated drainage areas in the Stockton metropolitan area.

A2.1 – General Plan Policy Statement

Federal regulations require storm water quality to be addressed in the planning procedures for new developments. The City's policies, goals, and objectives for new developments are established in the City of Stockton General Plan Policy Document. The City of Stockton adopted the necessary General Plan policies requiring that storm water quality controls on May 20, 1996. This BMP has been completed.

A2.2 – Conditions of Approval & A2.4 – Storm Water Quality Control Criteria Plan (SWQCCP)

During the planning review process, City staff must have the ability to review and conditionally approve projects (A2.2). This will be accomplished through the

adoption and implementation of the SWQCCP (A2.4). This Plan was adopted in 1997 via Ordinance 10-97 C.S. and contains storm water quality-related performance standards, design criteria, and maintenance requirements.

Throughout the year projects submitted for approval are routed to the Municipal Utilities Department for review to insure compliance with the SWQCCP. These projects consist of improvement plans, environmental documents, use permits, annexation requests, and tentative maps. During the 2001/02 reporting period 155 project reviews were conducted by MUD staff. During the current reporting period, 263 reviews were conducted. A listing of projects reviewed is contained in the Storm Water Management files.

A2.3 – Municipal Utilities Department/Development Review Committee

The Stockton Municipal Code requires that the Development Review Committee, which is made up of representatives from various departments, review all tentative maps, specific plans, etc., and make recommendations on other proposed projects on private property. A MUD representative was placed on the DRC to ensure consideration of storm water quality controls in the planning of new developments which successfully completes this BMP.

The following DRC meetings were held during the during the 2002/2003 reporting period:

Date	Project
JULY 2, 2002	TM5-01, Villa Tuscany
JULY 9, 2002	TM 12-01, Ten acre commercial site @ Lower Sacramento Road and Hammer Lane
JULY 23, 2002	A00-03, Annexation of 12.87 acre commercial site
AUGUST 6, 2002	TM 11-02, 12.35 acre industrial development; TM 16-02, 2.85 acre/15 lot subdivision; TM 17-02 71.3 acre/270 lot subdivision
AUGUST 27, 2002	TM 12-01, 83.13 acre/453 lot subdivision; TM10-02 0.48 acre/3 lot subdivision; TM19-02, 25.61acre school sites; TM18-88 La Morada development
SEPTEMBER 10, 2002	TM15-02, 7 lot commercial subdivision
SEPTEMBER 17, 2002	TM14-02, 4.37 acre/10 lot subdivision
SEPTEMBER 24, 2002	TM24-02, 16.84 Costco site
OCTOBER 1. 2002	TM23-02, 0.28 acre/2 lot subdivision
OCTOBER 8, 2002	TM25-02, 19.93 acre/102 lot subdivision
OCTOBER 15, 2002	TM25-02, revision of site map
OCTOBER 22, 2002	A-02-01, 52 acre annexation for school; A-02-02, 102 acre annexation for school
OCTOBER 29, 2002	TM13-02, 86.19 acre/337 lot subdivision; A-03-02, 129.60 acre annexation; La Morada Development Agreement

NOVEMBER 26, 2002	Amendment to TM11-00 for Spanos Park
DECEMBER 16, 2002	TM27-02, 8.7 acre/2 lot subdivision
JANUARY 7, 2003	Stockton Steel Annexation
JANUARY 14, 2003	TM26-02, Juliet Terrace
JANUARY 21, 2003	A-2-07 Pock Lane Annexation
JANUARY 28, 2003	TM28-02, Gerald Ford
FEBRUARY 25, 2003	TM1-03, Yadra; TM2-03 – Eigenberger
MARCH 18, 2003	TM16-02, McGinnity; Dave Brubeck Way, SN1-03
MARCH 25, 2003	TM4-03, Hutz
APRIL 8, 2003	TM7-03, Heavenly Acres; TM8-03 Park West Place; TM10-03 Sonata & TM11-03 Hammer Holding Commercial
APRIL 22, 2003	TM13-03, Moreno; TM12-03, Chitwood
APRIL 29, 2003	TM14-03 McGinnity
MAY 20, 2003	TM3-03 Rancho Del Sol
MAY 27, 2003	TM9-03 Montego; TM18-02 Oakmore; TM5-03
JUNE 10, 2003	TM17-03 Weber Grove; TM2-03; TM15-03 Beck Farms

In addition, Municipal Utilities has a representative on the Economic Review Committee. This Committee assists prospective developers through the development review process. In most cases, this is the developer's first exposure to storm water pollution prevention requirements. The following ERC meetings were held during the 2002/2003 reporting period:

Project Name	ERC Date
Zamora Automotive	7 /11/2002
Naiad Company, Inc.	7 /30/2002
Concrete Forms Manufacturing	8 /1 /2002
Grocery Store	8 /12/2002
Toys R US - Pacific Town Center	8 /27/2002
Slot Car Race Track	9 /4 /2002
Transit Center	9 /4 /2002
Charter Way/Tillie Lewis Development	9 /18/2002
Vernon Transportation - Expansion 2002	10/10/2002
Fowlers - Office Space	10/10/2002
Gas Station/Car Wash/Mini Mart	10/15/2002
Water Based Coating Manufacturing	10/16/2002
Auto Supply Distribution Company	10/17/2002
Auto/Farm Machinery Filter Retail	10/17/2002
Meat Market - La Estrella	10/28/2002
SBC Internet Services	11/12/2002
Gnekow, Shawn	11/14/2002
ChemStation	11/22/2002

Gleason Park Housing Project	1 /7 /2003
Statham Trust	1 /7 /2003
Treasure Island Sports	1 /8 /2003
Mini-Storage Spanos West	1 /10/2003
Verner Industrial/Residential	2 /6 /2003
Retail Strip Center	2 /11/2003
Roof Tile Manufacturing (SJP#1096.0212)	2 /19/2003
PG&E	2 /21/2003
A Plus Materials	2 /21/2003
Pacific Towing	2 /26/2003
Boat Storage Warehouse	2 /26/2003
Tax Express	3 /3 /2003
Guaranty Bank - New Branch	3 /6 /2003
Weston Ranch Retail - Rousek	3 /12/2003
Gas Station	3 /17/2003
Gateway Center Grocery Store	3 /18/2003
Airport Gateway, Area 1	3 /18/2003
St. Mary's High School	4 /3 /2003
Western Pacific Housing	4 /9 /2003
Global Intermodal	4 /11/2003
Teresi Property, Residential/Commercial	4 /17/2003
Marchetti Property	4 /17/2003
Chandler Property	4 /18/2003
Babies R Us	4 /24/2003
J & J Hobbies	4 /29/2003
Franco Building Rehab	5 /1 /2003
Air Products	5 /7 /2003
Dave's Towing	5 /8 /2003
TKG International	5 /15/2003
ACE Trains Maintenance Station	5 /23/2003
VisTech Msanufacturing Solutions	5 /27/2003
Ace Hardware Expansion	6 /10/2003
James Hardie Siding Manufacturing	6 /11/2003
Ranchhod Commercial Project	6 /16/2003
Kohl's Distribution-Confidential	6 /17/2003
Delta Wireless	6 /24/2003
Catering Business-Parking	6 /27/2003

A2.5 – Development Review Procedures

This BMP requires that the City revise its development review process to ensure that storm water quality BMPs are incorporated into the planning of new developments and significant redevelopment and that the BMPs are

implemented. Per the discussion of A2.2, A2.3, and A2.4 above, this BMP has been completed.

A2.6 – Standard Specifications and Plans

The City updates its Standard Specifications periodically as required for changing regulations and to address ongoing construction concerns. The City's format is consistent with Caltrans. During the 1997 update, Section 101- Storm Water Quality was added. This section contains both specifications and plans for incorporation into applicable projects within the City. This successfully completed this BMP.

A3.1 – Street Sweeping and Litter Removal

The City has established a street sweeping program for all areas within the City. The City is divided into garden refuse collection zones which are used to schedule street sweeping. Frequency of street sweeping varies by zone, from a minimum of twice a month to a maximum of twice a week in very limited areas. The City coordinates the residential garden refuse collection and street sweeping program by scheduling street sweeping for the day after garden refuse collection.

Litter removal is provided City-wide through the alternative work program for community service. The program includes pickup of used tires, appliances, furniture, etc.

The following details the tonnage collected in the 2002/2003 year:

MONTH	Litter (tons)	Garden Refuse (tons)	Street Sweeping (tons)	Total (tons)
July-02	51.92	2,356.78	197.67	2,606.37
August-02	50.66	2,235.74	253.59	2,539.99
September-	37.45	2,029.71	204.99	2,272.15
October-02	49.88	2,419.24	247.08	2,716.20
November-02	45.82	4,747.99	314.81	5,108.62
December-02	69.33	3,890.38	319.28	4,278.99
January-03	63.30	2,386.08	221.32	2,670.70
February-03	63.29	2,145.21	202.77	2,411.27
March-03	64.11	2,506.54	276.99	2,847.64
April-03	62.76	3,214.06	326.48	3,603.30
May-03	62.08	2,895.49	226.27	3,183.84
June-03	52.51	2,702.91	181.62	2,937.04
TOTALS	673.11	33,530.13	2,972.87	37,176.1

A3.2 – Street Pavement Maintenance and Reconstruction

The City Public Works Department has an established pavement maintenance program that addresses the removal and proper disposal of pavement material, paint residue, and other construction waste. To facilitate construction material pickup and recovery, a motor sweeper is permanently assigned to the City's street maintenance crews. Job sites are swept daily or on an as-needed basis to collect residual materials associated with the construction or maintenance activity. Storage, disposal, and material handling procedures are in accordance with the Storm Water Pollution Prevention Plan prepared by Public Works for their maintenance activities. In addition, a Staff Maintenance Guide has been developed listing appropriate BMPs for a wide variety of maintenance activities.

A4.1 – Existing Structural Controls Evaluation

Existing structural flood control devices were evaluated to determine if they can provide additional pollutant removal from storm water.

To accomplish this, Camp Dresser & McKee was retained for the purpose of evaluating the feasibility and cost effectiveness of retrofitting 4 dry detention basins in order to provide additional pollutant removal. The draft report entitled "Evaluation of Existing Storm Water Detention Basins" was submitted with the 1995/96 Annual Report. The purpose of this BMP was to perform an evaluation. Therefore, this BMP is completed.

A4.2 - Proposed Flood Management Projects Evaluation

This BMP requires that procedures be developed to ensure that proposed flood management projects consider impacts on water quality. Through BMPs A2.1, A2.2, A2.3, A2.4, and A2.5 adequate procedures have been put into place to ensure that all projects, including flood management projects, will be reviewed for impacts to water quality.

No flood control projects were reviewed during the 2002/2003 reporting period.

A6.1 – Pesticides, Herbicides, and Fertilizers Control Program

The City is continuing its existing program to control pesticides, herbicides, and fertilizer applications, and has designated a Pest Control Manager to coordinate these applications with the San Joaquin County Agricultural Commissioner's Office.

An Administrative Procedures Order (P&R-003) was enacted on May 17, 1996 to ensure that individual City departments continue their current use of pesticides, herbicides, and fertilizers and to bring these programs under an umbrella of coordination of City review and reporting procedures. A designated Pest Control

Manager will ensure this coordination occurs. Attached in Appendix B is the Annual Pesticide, Herbicide, and Fertilizer Usage Report Chris Moreno, the Pest Control Manager.

2.1.1 Program Component Assessment

All of the BMPs contained in the Residential and Commercial Activities component of the Storm Water Management Plan have been successfully implemented.

2.2 IMPROPER DISCHARGE ACTIVITIES

Federal regulations require that a program be developed to detect and remove illicit discharges and illegal dumping into the storm drain system, and, at a minimum, to include:

- An enforceable program to detect and prevent illicit discharges to the storm drain system
- Field screening activities to detect illicit discharges over the life of the permit, including a program to investigate illicit discharges or evidence of illicit discharges found during field screening activities
- Measures to prevent spills from discharging to the storm drain system
- Promoting public reporting of illegal dumping and proper management and disposal of used oil
- A program to prevent infiltration from sanitary sewer systems into the storm drain system

The City of Stockton's Improper Discharge Activities (IDA) program was developed to fulfill these requirements. The BMPs selected for implementation in the IDA program are as follows:

B1.1 - Prevention of Illicit Discharges/Connections
B2.1 - Ongoing Field Screening
B3.1 - Investigation and Elimination of Illicit Discharges
B4.1 - Storm Water Pollution Prevention Plans for Municipal Facilities
B4.2 - Industrial Inspections for Spill Prevention and Response
B5.1 - Public Reporting Program
B6.1 - Public Education
B6.2 - Storm Drain Stenciling
B6.3 - Household Hazardous Waste Collection

B7.1 – Sanitary Seepage/Overflow Coordination

B1.1 – Prevention of Illicit Discharges/Connections

The City is continuing integration of illicit connection and illegal discharge prevention measures through the City's Municipal Code and the City's planning and permitting programs.

The heart of the City's program is the City's plan review and construction inspection process to prevent illicit discharges to the storm drain system. Chapter 16 (Planning and Zoning Code) of the Municipal Code includes provisions for tentative/parcel map review and approval including approval of storm drain systems. The plan review process includes checking to ensure that no illicit connections to the storm drain system are proposed.

Once project plans are approved by the City, the site and building plans will serve as guidelines for City inspectors to track project compliance during their site inspections. Inspectors ensure that no illicit connections occur, and that projects are build in accordance with the approved.

The purpose of this BMP is to prevent illicit connections. Detection and correction of existing illicit connections would not be covered under this BMP.

B2.1 – Ongoing Field Screening

The City surveys 20% of the major outfalls annually so that over a five-year period, the entire system will have been surveyed. The purpose of this task is to identify any new dry weather flows. The field screening for 2002/2003 took place in July/September of 2002. The following outfalls were sampled:

Table 1.1 2002 Sampling Basins

Basin Identification	*Location*
5M-118	5 Mile Creek at Pershing Ave.
5M-134	5 Mile Creek at Caran Ave.
5M-164	5 Mile Creek near Leesburg
AA-169	Arch Airport Road east of Airport Rd.
AA-170	Arch Airport Road at Airport Rd.
DC-167	Duck Creek near Bieghle Alley.
DW-101	Deep Water Channel near Commerce St.
DW-114	Deep Water Channel north of Weber St. and 50 ft west of Center St.
DW-121	Deep Water Channel at McLeod Park.
DW-123	Deep Water Channel at Weber Point.
DW-129	Deep Water Channel at Weber and Center Sts.
DW-133	Deep Water Channel near Weber Park.

DW-138	Deep Water Channel at Fremont St.
DW-139	Deep Water Channel near East Lindsay St.
DW-156	Deep Water Channel near Edison St.
DW-163	Deep Water Channel 100 ft west of DW-114.
LB-106	Little Bear Creek near Hacienda Ct.
LB-107	Little Bear Creek at Thornton Rd.
LB-109	Little Bear Creek 30 ft. west of Davis Rd.
LB-124	Little Bear Creek at Davis Rd.
LB-127	Little Bear Creek northeast of Davis Rd.
LB-129	Little Bear Creek south east of Davis Rd.
LJ-173	Little John Creek at Hwy 99 West Frontage Rd.
MM-143	Mormon Slough near Lincoln and Washington Sts.
MM-158	Mormon Slough at Commerce St.
MM-162	Mormon Slough on Lincoln St. near Sonora St.
WS-171	Weber Slough at Hwy 99 East Frontage Rd.

An Executive Summary of the results is included in Appendix C.

B3.1 – Investigation and Elimination of Illicit Discharges

The goal of this BMP is to eliminate illicit discharges through investigation, education, and enforcement. Dischargers contributing dry weather flows that are determined to occur from illicit discharges will be educated using materials developed as part of the public education program.

The Storm Water Division's Environmental Control Officer has been given the responsibility to investigate reports of illicit discharges. Other staff within the Division are available as backup when needed. The following is a tabulation of reports over the past four fiscal years:

- 1999/2000 151
- 2000/2001 177
- 2001/2002 297
- 2002/2003 498

The year to year increase is a reflection of the success of the public outreach and education program focusing on the identification and reporting of illicit discharges to the City.

During the reporting period, fourteen (14) field notices to clean were issued to following Responsible Parties:

- Lyon's Restaurant on Yokuts Drive (2)
- Paul Davis Restoration
- Citizen at 6952 Cumberland Place
- Mr. Luis Hernandez
- Vintage Square Apartments
- DCS Incorporated
- Citizen at 9520 Enchantment
- D.R. Horton and Sons Painting
- Casa Manana
- Del Taco Restaurant
- Citizen at 7929 Parkwoods Wy
- Blockbuster Video
- Port City Investments

Also, 6 Notices of Violation were issued to the following companies:

9/11/02	Vintage Square Apartments
9/13/02	DCS Painting
10/08/02	Champagne Real Estate
11/18/02	Zacky Farms

A detailed description of the report, action taken, and final resolution are contained in the City's files.

B4.1 Storm Water Pollution Prevention Plans for Municipal Facilities

The objective of this BMP is to develop SWPPPs that integrate storm water quality concerns into the existing spill prevention and cleanup programs. A SWPPP was developed for the Public Works Municipal Service Center. As noted in previous annual reports, the City's two landfills (Austin Road and French Camp) have been sold and closed, respectively. Therefore, the only City facility that requires a SWPPP is the Public Works Corporation Yard.

On December 11, 2002, the EPA conducted and audit of the City's Program. As part of this audit the EPA conducted a site inspection and SWPPP review for the Public Works Municipal Service Center. The audit noted a number of deficiencies on site.

Since EPA inspection, the Storm Water Management staff and the Public Works staff have worked closely and resolve all deficiencies noted in the EPA audit.

B4.2 – Industrial Inspections for Spill Prevention and Response

The City currently has two ongoing industrial inspection programs. The Fire Department inspects businesses to ensure compliance with the Hazardous Materials Management Plans and Risk Management and Prevention Plans. The Municipal Utilities Department (MUD) inspects permitted industrial discharges to the sanitary sewer system to ensure compliance with the requirements of the industrial pretreatment program.

The list of industries inspected annually by MUD for the pretreatment program was provided in last year's annual report. As noted previously, the pretreatment inspections include a review of chemical containment and potential for spills.

The Fire Department inspects industry and businesses on an as needed basis. As noted by Kent Miller, Deputy Fire Marshall, the prevention of spills into the storm drain system are part of the standard inspection process. In addition, Mr. Miller is part of the multi-agency Toxic Strike Force that targets polluters within San Joaquin County. This task force includes representation from the District Attorney's office, and County OES. Because of this participation, the City has the opportunity to obtain information concerning industrial and commercial polluters and the ability to gather information for possible prosecution. The Storm Water Division has requested to be a participating member of the task force.

B4.3 – Hazardous Materials Emergency Response Plan

The SWMP notes that a Hazardous Materials Emergency Response Plan will be implemented to facilitate a consistent and coordinated response to spills that may discharge into the storm drain system.

The City has adopted two plans that would fulfill this requirement: the Emergency Operations Plan (updated 1999) and the Hazardous Materials Management Plan (updated 2002). Both Plans are available for review in the City's files.

The standardized reporting noted in the SWMP is set forth in the Emergency Spill Response Notifications document. This document was provided with last year's annual report.

B5.1 – Public Reporting Program

The City Manager's Office has published a directory that lists the telephone numbers of all City staff and departments. The directory is distributed to all City employees (office and field personnel) who are expected to keep a copy with them during business hours. This directory is designed primarily to facilitate the public's access to City government by giving every City employee the ability to direct initial inquiries to the appropriate department or person.

In addition, to the directory, 3 different telephone numbers (911, Public Works Department [PWD], and Municipal Utilities Department [MUD] emergency service lines) provide access to City departments. During normal business hours, PWD and MUD personnel staff their respective emergency service lines and dispatch calls to the appropriate department. After hours, calls to these lines are "rolled over" to 911 and the Fire Department dispatcher.

Of the 498 reports of illicit discharge documented by the Storm Water Division in 2002/2003, 103 came from non-Municipal Utility employees. These reports came from citizens, other agencies and other City departments. Therefore, the effort to encourage reporting of illicit discharges has been successful and will be continued.

B6.1 - Public Education

A full-time Outreach Coordinator oversees a variety of public education/public participation projects. Volunteers continue to be the backbone of the outreach activities which included the following:

School Programs:

The 45-minute interactive classroom presentation continues to be the mainstay of the school outreach program. A flyer describing the program was developed and mailed to all school principals. The program is targeted to 5th grade students

and helps those teachers meet the science component of the California Content Standards for Science. Each student receives an "Only Rain Down the Drain" activity booklet and sticker. Each teacher receives a copy of the school video and printed material on water, wastewater, and stormwater. The packet also includes a water cycle poster from the Dept. of Water Resources and an order form for free supplies and materials available to teachers.

Presentations were made at 16 schools to 1,588 students at the following schools:

Mabel Barron School	96 students	three 5th
Bear Creek High School	66 students	sophomore science
Brookside Elementary	160 students	two 5^{th}, three 6^{th}
Colonial Heights	80 students	three 5th
Davis School	62 students	two 5^{th}
Elkhorn Elementary	31 students	one 5^{th}
Martin Luther King School	43 students	two $4^{th}/5^{th}$ combos
August Knodt School	134 students	three 5th
Lincoln School	121 students	four $5^{th}/6^{th}$ combos
Rio Calaveras School	107 students	four 5th
San Joaquin School	133 students	four 5th
Taft School	150 students	three $3^{rd}/4^{th}$, two 5^{th}, three $5^{th}/6^{th}$ combo
Taylor Magnet School	42 students	one 5^{th}, one 6^{th}
Tulley C. Knoles School	96 students	three 5^{th}
University School	112 students	$4^{th}/5^{th}$ combo
Wagner Holt School	31 students	one 5^{th}
Westwood School	124 students	four 5^{th}

After School Program

In addition to the traditional classroom setting, the Stormwater Outreach effort again partnered with the City's Parks and Recreation Department to make presentation as part of its Summer Discovery Camp Program. The presentations were shortened versions of the ones made in the classrooms and included viewing the "Only Rain Down the Drain" video and demonstrations with the watershed model. Each student received an "Only Rain Down the Drain" activity booklet and sticker. There were 16 presentations made to 290 5^{th} and 6^{th} grade students at the following sites:

Sierra Vista Community Center	30 students
McKinley Community Center	60 students
Oak Park Community Center	30 students
Stockton Rod & Gun Club	60 students
Siefert Community Center	80 student
Zion Lutheran Church	30 students

Other presentations:
In addition to the classrooms, stormwater pollution prevention presentations were made to the following groups:

- 20 members of Brownie Troop #2106
- 40 members of Lao Khmu youth group
- 10 members of the Lao Khmu adult education class
- 4 artists submitting projects for public art projects for storm water pump stations
- 15 teachers from throughout the County who participated in the River of Words two-day training at Elkhorn Elementary School

Community Events:
Using the stormwater model for demonstrations, a watershed display board, distributing activity booklets and stickers for children, and informational brochures for adults, the outreach effort was extended to the following community events:

- Ag Expo
- State of the City (City of Stockton)
- Asparagus Festival
- Earth Day Festival
- Cinco de Mayo
- Black Family Day
- National Pollution Prevention Week
- Family Literacy Day in the Park
- Make A Difference Day
- National America Recycles Day

Ag Expo (Jan. 21, 22, 23, 2003) – Partnering with the County's Public Works and Solid Waste Division, and members of the community volunteer group, TOPPS (Targeted Opportunities to Prevent Pollution in San Joaquin County), participated in this three-day event. The group used the watershed model to do stormwater demonstrations. 125 "Only Rain Down the Drain" fish magnets and 50 "Keep Our Creeks Clean" brochures were distributed.

State of the City (Feb. 19, 2003) - Staffed the booth for four hours at the annual State of the City event, sponsored by the Greater Stockton Chamber of Commerce, and held at the Port of Stockton. The stormwater display included photos of businesses which had been recipients of past TOPPS Environmental Excellence Awards recognition with a brief description of the award-winning project. The display included brochures and pollution prevention material. Distribution of information was as follows: 25 industrial brochures; 100 stormwater fish magnets; 25 Keep Our Creeks Clean (English); 10 TOPPS brochures; 15 TOPPS 10th Annual Solutions for Compliance Workshop save the date cards.

Earth Day Festival (April 19, 2003) - Even though the event date was the day prior to Easter Sunday, participation in the Earth Day Festival increased over last year. The effort for the City's Stormwater Outreach Program began in September to begin coordination for the day-long event which marked the 15th year. This marked the second year the Festival was held in the downtown Stockton area at the Weber Point Events Center. There were 70 vendors and about 5,000 in attendance. The Stormwater Outreach Coordinator continued as the lead on this City-sponsored event. She was assisted by a committee made up of representatives from San Joaquin County Public Works, San Joaquin County Office of Education, Peace and Justice Network (the group that originated and maintained the event for 13 years), and Connections weekly newspaper.

The day-long event featured environmental information booths, teacher training, more than 300 students participating in the River of Words environmental poetry and art contest, and an environmental mask parade. Booth participants included representative from such agencies as San Joaquin County Mosquito Abatement and Vector Control, San Joaquin County Audubon Society, DeltaKeeper, University of the Pacific's water games display, City of Lodi's Storm Drain Detectives, United Cerebral Palsy, American Red Cross, and many more. Food booths and vendors sold only "non-meat products" to keep with the "environmental" theme. There was also musical entertainment throughout the day which included the Lau Khmu Youth Dancers, the Ripon High School Steel Drum Band, the Hamilton Middle School Jazz Band, rock bands RocketCar and Clan Dyken.

Both the City Council and County Board of Supervisors issued Proclamations for the event. It was promoted on the City's website, radio public service announcement, in the local newspapers – Connections, The Record, Caravan, and in the City's utility bill newsletter Update.

Asparagus Festival (April 25, 26, 27, 2003) – Partnering with the City's Solid Waste Division and San Joaquin County Public Works, this marked the second year the stormwater outreach effort participated in this three-day event which draws an estimated 100,000+ people. The booth was staffed with the watershed model for stormwater demonstrations, stormwater brochures and water conservation information. The booth also had a composting bin, booklets on backyard recycling and other recycling material, organic products for use in place of toxic pesticides.

The following stormwater items were distributed by the City - Activity booklets (262); "Only Rain Down the Drain" fish magnets (500); "Save Water" plastic bags (300); Water conservation wheels - (166); P2 Brochures - Industrial (1), Construction (9), Outside your house (12); Inside your house (9); Landscape/Pools (7); Inside your garage (8); Paints and solvents (9); In your garden (18); On your boat (4); 10 Commandments for Your Backyard (Audubon

hand-out) (24); Water Conservation brochures (36). County - Only Rain Down the Drain stickers (239: Keep Our Creeks Clean brochures (English -10, Spanish - 3, Vietnamese - 1); Stenciling Program brochures (3); P2 Urban Runoff Booklets (13); Spanish Grasscycling Brochures (2); "Don't Trash California" Bumper Stickers (250); Sunset "How To Water." Mini Magazine (250); Sunset "Smart Water...." Mini Magazine (141); Sunset " Water Wise...." Mini Mag (113); Worm Digest Magazine (21).

CINCO DE MAYO (May 4, 2003) – Partnering with San Joaquin County Public Works, sponsored a booth at Cinco de Mayo held at Weber Point Events Center from 11 a.m. until 6 p.m. Stormwater demonstrations were provided with the watershed model. The following hand-out material was distributed: City - Activity booklets (200); Water conservation water wheels (100); Como conservar el agua booklets (107); Conservacion del agua (86); Fish magnets (250); "Save Water" plastic water conservation bags (168); P2 in your garage (8); P2 inside your house (2). San Joaquin County - Stickers (326); P2 Pamphlets/Booklets(15); Keep Our Creeks Clean (English – 12); Keep Our Creeks Clean (Spanish-52); Sunset Mini Magazines - Watering How To (21); Don't Trash California Stickers (36).

Black Family Day (Sept. 2, 2002) – Partnering with San Joaquin County Public Works, sponsored a booth for Black Family Day and distributed the following items: Activity booklets –163; "Only Rain Down the Drain" fish magnets-132; BMP brochures: Pools/Landscaping-5; In Your Garden -4; In Your Home-4; Outside Your Home-4; On Your Boat-2; Paints and Solvents-5; "50 Ways to Save Water" brochures; Water Conservation rulers-42; "Save Water" Conservation bags-90.

National Pollution Prevention Week (Sept. 16-22, 2002) – On Sept. 17, 2002, the City Council issued a proclamation declaring Sept. 16-22, 2002 as National Pollution Prevention Week. A representative from the community volunteer organization, TOPPS (Targeted Opportunities to Prevent Pollution in San Joaquin County) was on hand to receive the proclamation. 100 posters from Department of Toxic Substance Control were distributed to City Departments and various locations around the City. A pollution prevention display was in the City Hall Lobby for the week and the following materials were distributed: "Only Rain Down the Drain" stickers-200; "Only Rain Down the Drain" fish Magnets-200; Keep Our Creeks Clean (English)-9; Keep Our Creeks Clean (Spanish)-14. Pollution Prevention brochures: On Your Boat-4; Landscaping/Pool-15; Paints and Solvents-10; In Your Garage-4; Outside Your Home-12; Inside Your Home-12; In Your Garden-42; HELP!-25; Industrial Brochures-12; Water Conservation In Your Home-22. 55 Sunset Magazine; Smart Water/ Energy Use in the West-36; 25 Things You Can Do to Prevent Water Waste-46; Water Efficient Plants-21; CalMax brochures-14.

Family Literacy Day in the Park (Sept. 21, 2003) – With the assistance of the Stormwater Construction Inspector, participated in the Family Literacy Day in the Park from 10 .m. to 4 p.m. The attendance was estimated at 25,000. Provided demonstrations with the stormwater model and distributed the following materials: Activity booklets-459; "Only Rain Down the Drain" stickers-500; "Only Rain Down the Drain" fish magnets-500; Waste recycling guides 20; Flyers (Stream cleanup-1), (Stenciling-2), (School program-1); Pollution Prevention brochures P2 In Your Garden-13; P2 On Your Boat-4; P2 In Your Garage-10; P2 Pools/Landscaping-25; P2 Outside Your Home-19; P2 Inside Your House-10; Paints and Solvents-10; Keep Our Creeks Clean (English)-25; Keep Our Creeks Clean (Spanish)-19; Keep Our Creeks Clean (Cambodian)-5; Keep Our Creeks Clean (Vietnamese)-2; Keep Our Creeks Clean (Laotian)-0; Water Conservation in Your Home-13; WC Water Wheels-200; "Save Water" conservation bags-450; 50 Ways to Save Water-18.

Make A Difference Day (Oct. 26, 2002) – Partnering with San Joaquin Co. Public Works, coordinated two separate events as part of the Citywide Make a Difference Day. With 17 members of Tierra Del Oro Girl Scout Council, 14 students from Delta College's Natural Resource Conservation classes, and Key Club members from Stagg (4) and Bear Creek (2) high schools, nearly 400 storm drain catch basins were stenciled. In addition, 15 students from Lincoln High School and Delta College, along with DeltaKeeper volunteers made a difference by cleaning up Yosemite Lake at American Legion Park. The dumpster was provided by the City's Solid Waste division.

National America Recycles Day (Nov. 15, 2002) – University of the Pacific student organization, Students for Environmental Action, extended an invitation to participate in this event on campus from 11 a.m. to 2 p.m. The invitation was extended to both the City and County Solid Waste Divisions. Small turnout by students perhaps because it was held on a Friday afternoon, but still got some attention. The event was also broadcast live on KWIN radio. A segment was produced for Channel 97. Stormwater brochures and "Only Rain Down the Drain" fish magnets were distributed to the students.

Stream Cleanup Events:

The City's stormwater outreach effort partnered with several groups this last year to participate in several community stream clean-up events. The City's Stormwater Management Program provides safety boots, goggles, safety vests, trash bags, vehicles and, where applicable personnel to assist and patrol the clean-up area. The biggest expense for this effort is always the cost of the dumpster. Where possible, a local business partner is secured to underwrite the cost. This year's events included the following:

- Contributed trash bags and gloves for the nearly 500 volunteers who participated in the California Coastal Cleanup on Sept. 21. The City's Stormwater Outreach Coordinator takes part in the community event, Family

Literacy Day in the Park, held on the same day. The San Joaquin County Public Works stormwater outreach division oversees this project. The six locations for this year's event were selected from past year's high school and residential group cleanup sites. The City's Stormwater outreach staff also contacted volunteers to act as site coordinators. The City's Stormwater Environmental Control Officer acted as a site coordinator for two locations. The City's Stormwater Outreach Coordinator went before the Stockton City Council to promote the event. An e-mail notice was mailed to all City employees to promote participation. The event was also listed on the City's website. Two local television stations and the Record newspaper provided coverage of the event.

- On June 26, at the request of the Social Ministry Team for the Church of the Presentation Catholic Church, held a small clean-up event along the levee on the San Joaquin River at Buckley Cove.

- As requested by the Deputy City Manager, coordinated with the California Conservation Corp to cleanup a small portion of Mosher Slough along the back area of Valverde Park.

- Partnering with the City Manager's Office, Parks & Recreation, Public Works Tree Crew, Police Dept., Fire Dept., and San Joaquin County Public Works, the City's Stormwater Management Program staff took the lead to begin coordinating a cleanup effort with the Friends of Smith Canal (FOSC). The planning began in April for the event that was held on July 26. About 60 members of the FOSC, plus other local residents staged a massive cleanup project along 2.5 miles of Smith Canal between Yosemite Lake and the confluence of the San Joaquin River.

Partnering Opportunities:

Partnering with other City Departments, County agencies, local businesses, teachers, environmental agencies and groups continues to be a significant component of the stormwater outreach effort. Whenever applicable, the City and County partner on stormwater outreach activities and events. Some of the other significant partners include:

- San Joaquin County Office of Education - On Feb. 11, as requested by the San Joaquin County Office of Education, participated in an Environmental Education Teacher In-Service (entitled "Environmental Buffet") for 35 teachers in the County. Made a stormwater presentation and provided each of the teachers with an activity booklet, sticker, fish magnet, water conservation and wastewater materials. San Joaquin County's stormwater outreach effort included a demonstration with the Enviroscape watershed model.

- Partnering with San Joaquin County, Sacramento County Sanitary District., the cities of Sacramento, Modesto, Ceres, Lodi, and the Water Education Foundation, produced a stormwater video for use either in the classroom or public meetings. The video is entitled "Go With the Flow."

- Public Information/Public Participation (sub-committee of the California Stormwater Quality Association) – attended two of the four quarterly meetings.

- PG&E Employees Health Fair - Worked jointly with Neighborhood Services, Housing and Redevelopment. Had a stormwater display for 450 employees. The event was held twice during the fiscal year – 10/01/2 and 02/11/03.

- CA Urban Water Agencies – Attended a meeting and have had on-going contact with some of the members who have provided pollution prevention material for marinas.

- San Joaquin Watershed Education Partnership (formerly the San Joaquin Adopt-A-Watershed team) – There were two training weekends for teachers held this last year. The first was Place Based Learning which included a boat cruise through the Delta on the Reliance (Greater Yosemite Council of the Sea Scout ship). The other was River of Words training for the annual poetry and art contest held in conjunction with the Earth Day Festival.

- National Adopt-A-Watershed – Maintain an on-going relationship with the parent organization. Of significance, participated in a lengthy conference call with stormwater program representatives from several states to discuss California's (and specifically Stockton's) NPDES school component requirements. Discussed my classroom stormwater program and partnerships with local schools and teachers.

- River of Words – With teachers Julie Schardt and Sharie Goodfellow, coordinated the annual poetry and art contest held in conjunction with the Earth Day Festival. More than 300 entries from K-12 students were submitted. The entries were displayed at the Earth Day Festival. Contact was also made with the City's Public Art Committee.

- Attended several meetings with the Phase II cities in San Joaquin County to discuss outreach programs for future joint ventures, i.e., theater ads, radio and television public service announcements, etc.

- City of Stockton's Public Art Committee – Partnering with the Committee to promote the River of Words annual poetry and art contest held in conjunction with the Earth Day Festival. The Committee has developed several projects concerning water quality: art projects for several stormwater pump stations; maintenance hole covers; and a mural for the Regional

Wastewater Control Facility (RWCF). For all of these projects the Stormwater Outreach Coordinator has met with the selected artists to provide an overview of water, stormwater, wastewater and water conservation.

- City of Stockton Police Advisory Committee – Made a stormwater presentation to the eight member panel using the stormwater video "Go With The Flow." Stormwater materials were also distributed to the group.

Business Outreach:

- **TOPPS - Targeted Opportunities to Prevent Pollution in San Joaquin County -** The City of Stockton is a lead partner in the TOPPS organization which is a public-private partnership formed for the sole purpose of providing educational and support on pollution prevention to business, industry and agriculture in San Joaquin County. The membership continues to increase. TOPPS sponsors two major events each year - Solutions for Compliance Workshop in April (to coincide with Earth Day), and the Mayor's Environmental Excellence Award held in September as part of National Pollution Prevention Week.

  Both events are promoted on the City's website, in the City's monthly utility bill newsletter "Update," during the Public Comments portion of the weekly City Council meetings and in a press release.

  This year's **Solutions for Compliance Workshop** was held on April 24. There were 77 attendees and 23 exhibitors. The Department of Toxic Substance Control is a major underwriter of this event. The day's topics discussed this year included:

  - Universal Waste: Everyone Has It
  - Stormwater Phase II: How Does It Affect You?
  - Living In A Regulated Environment

  The Environmental Excellence Award recognizes industries, business, community groups, private organizations and agri-business – small and large – that address pollution prevention in the area of land, air and water. Applications from throughout the County are submitted to TOPPS for review. Each recipient receives a plaque and is recognized by both the Stockton City Council and San Joaquin County Board of Supervisors. Those winners from other cities within the County are recognized by their respective City Councils and the County Board of Supervisors. The last event marked the 9th year of these awards. About 75 people attended the awards breakfast to recognize eight award recipients in the area of water, land and air. Winners included:
  - Burlington Northern Santa Fe Railway
  - City of Manteca Solid Waste Division

- City of Lodi Storm Drain Detectives
- The SYGNA Network
- Dana Corporation
- Pioneer Little League
- Odyssey Environmental Services

Construction Training – As part of the Municipal Program of the Phase II permit, coordinated training for City of Stockton Building Inspectors, Street Maintenance personnel, and Traffic Engineers. Rich Muhl from the Central Valley Regional Water Quality Control Board made the presentation to 28 employees and one consultant who works for the City. Each received a copy of the City of Stockton Stormwater Maintenance Guide and a handout with the power point presentation.

General Outreach:

The outreach effort continues to look for ways to communicate the pollution prevention message to the community. The following are some of the on-going methods of communication for the stormwater message:

- **Website** – The Stormwater Outreach Coordinator is currently going through training to be able to design and upload information onto the City's Stormwater website. On-going events and information is included on the website

- **Monthly utility bill newsletter** - The newsletter is mailed to 37,000 households each month. The following articles were submitted for the last year:

  - Oil is bad for our water (August)
  - Make your mark....stencil storm drains (September)
  - National Pollution Prevention Week (September)
  - Keep your leaves out of the river (October
  - Keep leaves out of the gutter (December)
  - Stormwater programs available for school children (February)
  - Earth Day vendor applications are available (February)
  - Solutions for Compliance Workshop reservations (February)
  - Bag your garden refuse (March)
  - Earth Day Festival (March)
  - Don't discharge swimming pool water into streets (April)
  - Compost Bin Sale and Education Event (April)
  - Applications available for Environmental Excellence Awards (June)

- **Clearwater News** – A stormwater message is included in each edition of the monthly employee newsletter.

- **City Manager's Report** – As activity warrants, updates are included in the City Manager's weekly report – The Week That Was – on stormwater information. The report is read by the City Council, City employees and is now available to the public on the City's website.

- **Stockton City News/Channel 97** – The City's government access cable station carries stories, announcements and public service announcements of pollution prevention events, activities and informational items.

- **Plant tours** – Touring the Regional Wastewater Control Facility (RWCF) has become a part of the stormwater outreach community education programs. During the last fiscal year, tours were conducted for the following:
  1. Elkhorn Middle School students and advisors participating in the Science Olympiad – This group visited the RWCF twice. The won both the regional and state competition in wastewater.)
  2. 15 members of the League of Women Voters San Joaquin County
  3. University of the Pacific grad student of the education program.
  4. 28 students from Marshall Middle School.
  5. 20 students from the University of the Pacific's Environmental Geology class.

B6.2 - Storm Drain Stenciling

Stenciling storm drain catch basins has grown to be a successful community service project for youth groups, students, and interested individuals. The City of Stockton's Stormwater Management Program loans the supplies (stencil and paint) for the project. This year 608 storm drain catch basins were stenciled throughout the community.

B6.3 - Household Hazardous Waste Collection

The City continues to work with San Joaquin County in its efforts to bring awareness of its Household Hazardous Waste (HHW) program. This year there were no events held within the City of Stockton in anticipation of the opening of the San Joaquin County Household Hazardous Waste Consolidation Facility. The facility was opened on August 14, 2003, and is currently scheduled to operate Thursday, Friday and Saturday of each week from 9 a.m. until 3 p.m.

B6.4 – Used Oil Recycling

There is a continuous effort underway to educate the citizens of Stockton about the proper management and disposal of used oil. The list of used oil recyclers is posted on the City's website on both the Stormwater and Solid Waste pages, and is promoted at all community events attended by the Stormwater Outreach Coordinator. There was an increase in the amount of used oil collected during 2002-2003 over the previous year. 92,440 gallons were collected from the

residential community at 25 sites. In addition, 193,441 gallons were collected from business sites such as Jiffy Lube, Lube and Tune, etc. A total of 285,881 gallons were collected for recycling.

B7.1 – Sanitary Seepage/Overflow Coordination

The SWMP requires the City to continue its program to limit infiltration of seepage from the sanitary sewer and septic systems into the storm drain system. The City's current program uses a combination of inspection to ensure proper construction of sanitary systems, televising of existing storm drain lines, reporting by experienced maintenance personnel of sewage in the storm drain system, and dry weather sampling.

During sanitary sewer construction, regular inspections are conducted by City inspectors to ensure proper construction. This includes verifying no cross connections to the storm drain system as well as verification of leak testing of the sanitary system. In addition, the newly constructed sanitary lines are televised as a final check on construction quality.

The City also televises existing storm drain lines. During the reporting period, almost 2,000 lineal feet of storm drain were televised to check for a number items including cross connections and infiltration.

In addition, it is standard practice for Municipal Utilities' maintenance personnel to report any sewage discovered in the storm drain system for further investigation. And finally, the dry weather sampling conducted as part of BMP B2.1 samples for bacteria among other constituents.

All of the activities listed above constitute the City's current system to limit infiltration of sanitary seepage.

2.2.1 Program Component Assessment

All of the BMPs contained in the Improper Discharge Activities component of the Storm Water Management Plan have been successfully implemented.

2.3 INDUSTRIAL ACTIVITIES

Federal regulations require that a program be developed to control pollutants in storm water runoff from industrial facilities that are contributing a substantial pollutant loading to the storm drain system. Facilities mandated to be addressed in the program are municipal landfills, hazardous waste treatment, disposal and recovery facilities, and facilities subject to SARA requirements. At a minimum the program must:

- Establish priorities and procedures for conducting industrial site inspections
- Establish control measures for discharges from industrial facilities
- Implement a monitoring program for industrial facilities

The following BMPs are contained in the City of Stockton program:

C1.1 Priority Industrial Facilities Identification
C1.2 Industrial Conditions of Acceptance
C1.3 Industrial Facilities Inspection Program
C1.4 Industrial Facilities Enforcement Program
C1.5 Industrial Outreach Program
C2.1 Industrial Monitoring Program

C1.1 – Priority Industrial Facilities Identification

City staff has prioritized industrial facilities throughout Stockton based on a three tier prioritization process. The Priority Industrial Facilities (PIFs) are classified as follows:

- Level 1: includes the facilities identified as significant by the City and requires permitting for discharge to the storm drain system
- Level 2: includes those facilities that should have submitted a Notice of Intent to be covered by the State General Storm Water Permit for Industrial Activities
- Level 3: includes the eleven industrial categories specified in the source identification section of the EPA guidelines

Provided below is a list of the 32 Level 1 Industries in Stockton during the 2002/2003 reporting period.

Company	Major/ Minor	COA Issued	SWPPP Status	Last Site Visit	Inspection Due Date
Strocal, Inc.	Major	6/12/99	Complete	1/24/02	12/31/03
Universal Services Recycling	Major	8/11/00	Complete	2/1/02	12/31/03
Associated Tractor Service	Major	4/26/00	Complete	2/6/02	12/31/03
Zacky Farms	Major	11/29/00	Complete	11/27/02	12/31/03
Stockton Recycling and Transfer	Major	7/6/00	Complete	3/29/02	12/31/03
Quest	Major	8/16/02	Complete	8/16/02	12/31/03
Stockton Recycling Center	Major	8/11/00	Complete	3/29/02	12/31/03

Castle Metals	Major		Complete		12/31/03
Silgan Containers Manufacturing Corp.	Major	5/30/00	Complete	1/29/02	12/31/03
SIMS-LMC Recyclers	Major	12/16/99	Complete	2/20/02	12/31/03
Acme Truck Parts & Equipment, Inc.	Major	7/21/99	Complete	2/4/03	12/31/03
Juarez Metal Recycler	Major	10/17/01	Complete	3/26/01	12/31/02
Dana Corp.	Major	6/24/99	Complete	2/7/02	12/31/03
East Stockton Transfer Station	Major	7/6/00	Complete	2/8/02	12/31/03
Charter Way Auto Recyclers	Minor	7/21/99	Complete	2/11/99	12/31/04
Quinteros Auto Dismantling	Minor	6/23/99	Complete	3/4/99	12/31/04
Feed Commodities	Minor	8/3/01	Complete	2/15/01	12/31/06
Horizon, Inc.	Minor	6/21/99	Complete	2/5/99	12/31/04
Stockton Scavenger Association, Inc.	Minor	12/16/99	Complete	3/30/99	12/31/04
John Taylor Fertilizers	Minor	7/6/00	Complete	6/2/00	12/31/05
Sumiden Wire Products Corp.	Minor	7/6/00	Complete	2/9/00	12/31/05
Advanced Recycling Technologies	Minor	4/30/00	Complete	4/4/03	Out of Business
Tomra Pacific, Inc.	Minor	12/16/99	Complete	3/24/99	12/31/04
Automatic Switch	Minor	6/21/99	Complete	2/22/00	12/31/04
FTG Construction Materials	Minor	9/6/00	Complete	8/31/00	12/31/05
Jaguar Heaven	Minor	6/24/99	Complete	2/22/00	12/31/04
Unilever BestFoods	Minor	4/26/00	Complete	2/25/00	12/31/05
NJ McCutchen, Inc.	Minor		Incomplete	3/13/00	12/31/05
Ben's Auto Dismantler	Minor	6/21/99	Complete	1/22/99	12/31/04
Mathis Auto Wreckers	Minor	4/27/00	Complete	4/12/03	Out of Business
Mel's Auto Dismantlers	Minor	6/23/99	Complete	3/2/99	12/31/04
Applied Aerospace Structures Corp.	Minor	6/7/00	Complete	1/29/99	12/31/04

Of the 30 Level 1 Industries, fourteen (14) are classified as Major with the remainder as Minor. Major Industries are inspected once a year, while Minors are

inspected once every five years. In addition, Appendix D contains a listing of Level 2 and 3 PIF's in Stockton.

These lists are periodically re-evaluated and updated through site inspections, reviews of the City's business license list, the City's zoning maps, telephone yellow pages, Dunn and Bradstreet's Business listing, Office of Emergency Services spill list, and the State Water Resources Control Board's listing of companies filing a Notice of Intent.

C1.2 – Industrial Conditions of Acceptance

The City of Stockton has identified the need to issue storm water discharge permits or Conditions of Acceptance (COA) to local industries in order to protect the storm drain system and local waterways. These COAs have conditions that supplement the State General Industrial Permit requirements. The purpose of this is to give the City greater control over the implementation and enforcement of storm water quality requirements.

All Level 1 PIFs (Major & Minor) must be permitted to discharge to the City's storm drain system. The conditions listed in the COA result from a site review, review of the facility SWPPP, and their annual reports. The table above lists which Level 1 Industries have received a COA to date.

C1.3 – Industrial Facilities Inspection Program

Federal regulations require the City to identify procedures for inspecting PIFs. The inspections will in turn be used to establish control measures for industrial storm water discharges, which are also required.

The City's industrial facilities inspection program includes a yearly review of each facility's annual report. Also, site inspections are conducted once a year for Level 1 Major PIFs and once every 5 years for Level 1 Minor PIFs.

A right of entry for inspections is contained in the City Municipal Code along with the requirement that SWPPPs and annual reports be sent to the City Storm Water Management Program. These Code requirements are in place to allow the inspection program to function as needed.

A copy of the City's industrial inspection and SWPPP review forms were included in the 2001/2002 annual report.

The following is a chronological listing of the inspections conducted, annual reports reviewed, enforcement actions taken, and outreach provided to the industrial community:

- Assisted Charter Way Auto Wreckers with modifying their SWPPP (7/10/02)

- Assisted Mathis Auto Wreckers with their Annual Report (7/11/02)
- Reviewed and commented on Charter Way Auto Wrecker's Annual Report (7/12/02)
- Reviewed and commented Jaguar Heaven's Annual Report (7/12/02)
- Sent the inspection report and cover letter to Stockton Transfer and Recycling (7/16/02)
- Reviewed and commented on John Taylor Fertilizer's Annual Report (7/30/02)
- Reviewed and commented on Strocal's Annual Report (7/31/02)
- Reviewed and commented on Quest Industries' Annual Report (7/12/02)
- Reviewed and commented on Stockton Recycling and Transfer's Annual Report (8/1/02)
- Met with Quest Industries to discuss their SWPPP (8/12/02)
- Issued a COA to Quest Industries (8/16/02)
- Reviewed and commented on Quest Industries' SWPPP (8/16/02)
- Reviewed and commented on Universal Services Recycling's Annual Report (9/16/02)
- Requested Associated Tractor submit their Annual Report (9/25/02)
- Requested Mathis Auto Wreckers submit their Annual Report (9/25/02)
- Requested Juarez Metals submit their Annual Report (9/25/02)
- Requested Horizon Inc. submit their Annual Report (9/25/02)
- Requested Silgan Container submit their Annual Report (9/25/02)
- Requested Quinteros Auto Dismantlers submit their Annual Report (9/25/02)
- Requested Dana Corporation submit their Annual Report (9/25/02)
- Requested FTG Construction submit their Annual Report (9/25/02)
- Requested Simsmetal submit their Annual Report (9/25/02)
- Requested Stockton Recycling submit their Annual Report (9/25/02)
- Requested Tomra Pacific submit their Annual Report (9/25/02)
- Requested Applied Aerospace submit their Annual Report (9/25/02)
- Requested East Stockton Transfer submit their Annual Report (9/25/02)
- Requested Advanced Recycling submit their Annual Report (9/25/02)
- Requested Mel's Auto Wreckers submit their Annual Report (9/25/02)

- Requested Ben's Auto Wreckers submit their Annual Report (9/25/02)
- Requested ACME Truck Parts submit their Annual Report (9/25/02)
- Requested Stockton Scavenger modify their SWPPP to address excessive pollutants in their storm water (9/25/02)
- Requested Sumiden Wire modify their SWPPP to address excessive pollutants in their storm water (9/25/02)
- Requested Automatic Switch modify their SWPPP to address excessive pollutants in their storm water (9/25/02)
- Requested Stockton Recycling and Transfer modify their SWPPP to address excessive pollutants in their storm water (9/25/02)
- Requested Zacky Farms modify their SWPPP to address excessive pollutants in their storm water (9/25/02)
- Discussed SWPPP modification with Zacky Farms (10/1/02)
- Reviewed and commented on Associated Tractor's Annual Report (10/18/02)
- Discussed Ben's Auto Wreckers annual report (10/23/02)
- Approved and extension for the submission of ASCO's updated SWPPP (10/31/02)
- Met with St. Mary's High School environmental club to discuss storm water monitoring (11/1/02)
- Met with Zacky Farms concerning "blue water" entering the storm system from their plant (11/7/02)
- Met with the City corporation yard to update their SWPPP (12/6/02)
- Inspected Stockton Scavenger in conjunction with an EPA audit (12/10/02)
- Inspected the City corporation yard in conjunction with an EPA audit (12/11/02)
- Met with the City corporation yard to implement further BMP's to reduce potential pollution (12/19/02)
- Completed the industrial inspection report for Stockton Scavengers (1/7/03)
- Completed the industrial inspection report for the City corporation yard (1/9/03)
- Reviewed and commented on Cargill Foods' Annual Report (1/9/03)
- Reviewed and commented on Ben's Auto Dismantlers' Annual Report (1/9/03)
- Reviewed and commented on Silgan Containers' Annual Report (1/9/03)

- Reviewed and commented on Applied Aerospace's Annual Report (1/9/03)
- Reviewed and commented on East Stockton Transfer's Annual Report (1/9/03)
- Reviewed and commented on Tomra Pacific's Annual Report (1/10/03)
- Reviewed and commented on SimsMetals' Annual Report (1/13/03)
- Reviewed and commented on Dana Corporation's Annual Report (1/13/03)
- Met with Altec Brake Reliners to discuss the storm water program (1/14/03)
- Requested a revised SWPPP from ACME Truck Parts (1/21/03)
- Requested a revised SWPPP from Dana Corporation (1/21/03)
- Requested a revised SWPPP from Tomra Pacific (1/21/03)
- Requested a revised SWPPP from SimsMetal (1/21/03)
- Reviewed and commented on Castle Metals' SWPPP (1/31/03)
- Discussed a Notice of Termination with Del Monte (2/3/03)
- Inspected ACME Truck Equipment (2/4/03)
- Reviewed and commented on the revised SWPPP from Dana Corporation (3/5/03)
- Monitored the storm event (4/12/03)
- Attended Earth Day to educate the public about storm water issues (4/19/03)
- Discussed a Notice of Termination with Mathis Auto Dismantlers (4/25/03)
- Discussed the storm water program with Quikrete (5/13/03)
- Discussed fee structure with Juarez Metals (5/14/03)
- Inspected Boggs Steel (5/19/03)
- Inspected Roto Blades Inc. (5/19/03)
- Inspected Hubbard Milling (5/19/03)
- Inspected El Dorado Chemical Co (5/19/03)
- Inspected 4 municipal sites on the Port of Stockton (5/22/03)
- Conducted summer storm monitoring (6/4/03)
- Attanded the Industrial Permit Hearings (6/23/03)
- Conducted summer storm monitoring (6/25/03)

C1.4 – Industrial Facilities Enforcement Program & C2.1 - Industrial Monitoring Program

Federal guidelines require the establishment of procedures for implementing BMPs at industrial facilities. Also, federal regulations require that an industrial enforcement and monitoring program be implemented as part of the overall City program. The enforcement process in response to spill events may range from phone calls to a Notice of Correction and up to a Notice of Violation depending on the severity of the discharge. Penalties for noncompliance include fines, civil action, and referral to other regulatory agencies. The components and authority to carry out an enforcement and monitoring program have been adopted by the City Council and are contained in the City Municipal Code.

One level 1 PIF had a release to the storm system during FY 02/03. Zacky Farms had an inadvertent release of food dye to the storm system. Zacky Farms hired a private contractor to clean the affected storm system. No other formal complaints or reports of illicit discharge were made against any level 1 industries.

Most enforcement consisted of telephone reminders to reticent industries. These calls were complied with in every instance, most with little or no follow up required. There has been no need to issue an administrative or legal order in the past year.

A more detailed listing of actions taken are included under BMP C1.3

C1.5 – Industrial Outreach Program

An industrial outreach program has been developed to stress the importance of the storm water program to the participating industries and educate the industries about pollution control and appropriate Best Management Practices. This past year the outreach effort has focused on providing information through mailers (brochures) and numerous site visits to facilitate direct communication of pertinent information.

As part of this outreach effort, City staff has brochures targeted specifically for industries in Stockton. These brochures are handed out at community events and during inspections by City staff.

In addition, the Industrial Model Storm Water Pollution Prevention Model SWPPP, which is published by the City, is distributed as well. This model facilitates the preparation of a SWPPP for industries. The goal of providing this model is to encourage compliance with storm water regulations. The model is a standard item in our outreach package of information that is regularly provided to industries during site visits and in response to phone calls. It is also provided during Economic Review Committee (ERC) meetings with prospective industries that are considering locating in Stockton. This past year, 56 ERC meetings were

attended by Storm Water Management staff. Information concerning storm water pollution prevention during facility operation were provided and discussed. A copy of the model was provided with last year's annual report.

The City participated with the TOPPS organization to put on an Industrial compliance workshop on April 25, 2002. This was the eighth year for this workshop, which provides information to industries in Stockton and San Joaquin County concerning regulatory compliance. This year's workshop focused on two areas: Air Quality and Hazardous Storage and Disposal requirements.

A more detailed listing of actions taken are included under BMP C1.3

2.3.1 Program Component Assessment

All of the BMPs contained in the Industrial Activities component of the Storm Water Management Plan have been successfully implemented.

2.4 CONSTRUCTION ACTIVITIES

Federal regulations require the program to implement and maintain structural and non-structural BMPs to reduce pollutants in runoff from construction sites. At a minimum a construction program must include:

- Procedures for incorporating potential water quality impacts from construction activities into the site planning
- Requirements for BMPs
- Process to prioritize site inspections and enforcement activities
- Educational and training program

The City program includes four BMPs to address these requirements. The four BMPs are as follows:

- D1.1 Review for Construction Activities
- D2.1 Grading Ordinance
- D3.1 Inspection and Enforcement of Construction Activities BMPs
- D4.1 Education and Training Program

D1.1 – Review for Construction Activities

Federal regulations require that the City program include controls to insure that BMPs are incorporated into construction projects that address storm water quality. The State General Permit for Construction Activities requires the development and implementation of a SWPPP for designated construction sites. The property owner or designated representative is responsible for developing site plans or improvement plans that must be consistent with BMPs identified in their SWPPP and the City's NPDES Storm Water Management Program. Site

plans, improvement plans, and building plans are submitted to the City's Permit Center for review. As part of this review, the Municipal Utilities Department representative in the Permit Center includes a determination if a SWPPP is needed. If a SWPPP is needed, the applicant is provided a SWPPP Model for Construction. Once the SWPPP is completed it is sent to the Storm Water Program Manager for review along with project plans to insure BMPs are included in the project. No permit is issued until the storm water requirements for a SWPPP and BMPs are satisfied. The following is a list of SWPPPs reviewed during the 2002/2003 reporting period:

Issue Date Approved	SWPPP Number	Subdivision	Description
7/3/02	SPW10	Spanos Park West	Single Family Residence
7/16/02	BE031	Brookside Estates	Single Family Residence
7/25/02	CP060	Commercial Projects	Golden State Lumber
7/26/02	BE032	Brookside Estates	Single Family Residence
7/29/02	CP061	Institutional Projects	UOP Phase 2 Housing
7/30/02	CP062	Commercial Projects	Lot 16 Stockton Auto Center
7/31/02	LM007	LaMorada	La Morada Storm Drain Pump Station
8/8/02	WR022	Weston Ranch	Single Family Residences
8/8/02	SP023	Spanos Park	Single Family Residences
8/9/02	SPW11	Spanos Park West	Commercial Project
8/16/02	WW01	Weber Woods	Single Family Residences
9/3/02	CP063	Commercial Project	Parkside Industrial Park
9/13/02	CP064	Commercial Project	Aspire Public Schools Site
9/23/02	CE01	Calaveras Estates	Single Family Residences
9/30/02	CP066	Commercial Project	Schropshire Park
10/1/02	CA01	Camera Community - Phase I	Single Family Residences
10/30/02	CP067	Commercial Project	Consumer Car Audio
10/30/02	CP068	Commercial Project	Aspire School - Pyrenees Campus
11/5/02	LJ003	Little John Creek	Single Family Residences
11/8/02	SPW012	Spanos Park West	Single Family Residences
11/8/02	SPW013	Spanos Park West	Single Family Residences
11/18/02	LM008	La Morada	Single Family Residences
11/21/02	BE033	Brookside Estates	Single Family Residence
11/21/02	SPW014	Spanos Park West	Single Family Residences
12/5/02	CP069	Commercial Project	Brookside Business Park Bldg 1
12/5/02	CP070	Commercial Project	Aspire Public Schools
12/20/02	CP071	Commercial Project	Public Works

12/23/02	LM009	LaMorada	Single Family Residences
1/9/03	CP072	Commercial Project	Parkwest Place
2/5/03	CP074	Commercial Project	KFC / A&W
2/5/03	CP073	Commercial Project	Stockton Retail Center
2/6/03	BR002	Blossom Ranch	Single Family Residences
2/6/03	ME001	Montezuma Estates	Single Family Residences
4/16/03		Commercial Project	Parking Lot

The City's procedure also insures that the 9831 building permits issued for all types of construction projects in 2002/2003 received a review for storm water compliance.

D2.1 – Grading Ordinance

A grading ordinance was developed and adopted on February 28, 1997. A copy was provided in last year's annual report. The purpose of this ordinance is to establish uniform requirements for protecting and enhancing water quality in and around Stockton in a manner consistent with the federal Clean Water Act. It is also intended to promote the future health, safety, general welfare, and protection of property of the citizens of the City of Stockton by establishing requirements for:

- Clearing and grubbing, grading, filling and excavation of land to minimize damage to surrounding property, public right of way, and degradation of water quality

- Controlling the discharge of sediments and pollutant runoff from construction related activities to municipal separate storm drains

- Reducing pollutants in storm water discharges to the maximum extent practicable.

This BMP has been successfully completed.

D3.1 – Inspection and Enforcement of Construction Activities BMPs

Federal regulations require that a procedure be developed for prioritizing construction sites with regard to site inspections and enforcement of controls for the prevention of storm water pollution. In the City, the approved SWPPP and improvement/building plans are used by inspectors to insure that appropriate storm water BMPs are being put into place and maintained.

These inspections are conducted by three different departments: Municipal Utilities Department (MUD), Public Works Department (PW), and the Building Division of the Community Development Department (BD). The Storm Water Program Manager in MUD coordinates these inspections.

For a typical project, all three departments are involved in providing inspection services. PW provides inspections for the infrastructure improvements and those improvements located within the City right of way. The BD provides inspections as part of the building permit requirements. MUD provides overall site inspections for all projects and acts as a second check of the other two departments. For the 2002/2003 year, over 40,685 storm water inspections were done by PW and BD and over 1,130 storm water inspections were done by MUD.

D4.1 – Education and Training Program for Construction

Federal regulations require the development of a training program for construction personnel including municipal employees. The purpose of this program is to help personnel recognize potential sources of storm water pollution, including those associated with erosion and sediment control, and the BMP appropriate for each situation or source.

The City's education and training is conducted through informational brochures, the City's website and through one on one discussions during site inspections by Storm Water Division staff. Experience over the past five years has shown that the best environment to educate contractors is in the field where issues, BMP implementation and regulatory requirements can be discussed in a real world situation.

2.4.1 Program Component Assessment

All of the BMPs contained in the Construction Activities component of the Storm Water Management Plan have been successfully implemented.

2. 5 Overall Program Assessment

Assessing the pollutant reduction capability of a BMP cannot be measured quantitatively, but rather qualitatively. While the City has conducted significant water quality monitoring, the current data cannot be used to reliably measure reduction in pollutants. Therefore, an assessment on pollutant reduction must be made on a qualitatively basis. For example, implementing the illicit discharge program has resulted in material being eliminated from the storm drain system that had historically been pumped into the river. While a direct measurement of the amount of pollutants reduced cannot be made, an assumption that pollutants in the runoff were reduced as a result of implementing the activity can be made. Since all of the BMPs contained in the City of Stockton Storm Water Management Program have been successfully implemented and/or completed, an assessment that pollutants loads have been reduced can be made.

CHAPTER 3 – MONITORING RESULTS

The City is obligated under Federal regulations to conduct a storm water monitoring program for representative data collection during the term of the permit. Section 122.26(d)(2)(iii)(D) of the regulations requires a monitoring program collect representative data for the term of the permit for the purpose of discharge characterization.

The overall scope of the monitoring program involves the following:

- Monitoring four discharge sites representative of land use within the City of Stockton.
- Monitoring four receiving water sites downstream of the discharge sites to determine potential effects of the discharge on the receiving waters.
- Use of automated samplers to collect full flow-weighted composite samples of storm water runoff from each discharge site.
- Monitoring of two wet weather storm events and two dry weather storm events per year.
- Chemical analysis of total and dissolved trace metals, volatile organic compounds, semivolatile organic compounds, polynuclear aromatic hydrocarbons, chlorinated pesticides, polychlorinated biphenols, organophsophate pesticides, nutrients, TDS, TSS, hardness, BOD, and COD in flow-weighted composite samples
- Analysis of oil and grease, pH, fecal coliform bacteria and fecal streptococcus bacteria in grab samples from each site

For the term of the permit, the same eight monitoring sites will be used. The four discharge sites are representative of a commercial, industrial, residential, and a mixed land use within the City of Stockton. The selected sites reflect an appropriate balance of representative watersheds and practical considerations.

Receiving water monitoring was conducted a four sites downstream of the discharge monitoring stations. The receiving water monitoring sites are identified as MS-14R, CR-46R, SC-1R and DC-65R. All receiving water samples are grab samples, collected mid-stream, mid-depth in the receiving stream. Receiving water samples are collected after water from the discharge stations have most likely reached the receiving water station.

The selected discharge sites and their characteristics are as follows:

Monitoring Site	Outfall Code	Predominant Land Use	Area (acres)
West Lane/Calaveras River (South)	CR-46	Commercial	169
W. Pacific Industrial Park/Duck Creek	DC-65	Industrial	343
Legion Park/Smith Canal	SC-1	Mixed	1862
Kelly Drive/Mosher Slough	MS-14	Residential	533

A map showing the location of each of the four monitoring sites and four receiving water sites is contained in Figure 2.

For the 2002/2003 reporting period the City took samples during three storm events (SE):

- SE30 April 12, 2003
- SE31 June 4, 2003
- SE32 June 25, 2003

The results for the 2002/2003 wet weather sampling are contained in Tables 2 through 9 of this chapter. The tables contain the following information:

Table 2: Results from Kelly Drive/Mosher Slough (MS-14)
Table 3: Results from West Lane/Calaveras River (CR-46)
Table 4: Results from Western Pacific Industrial Park/Duck Creek (DC-65)
Table 5: Results from Legion Park/Smith Canal (SC-1)
Table 6: Results from Kelly Drive Receiving Water (MS-14R)
Table 7: Results from West Lane Receiving Water (CR-46R)
Table 8: Results from Western Pacific Receiving Water (DC-65R)
Table 9: Results from Legion Park Receiving Water (SC-1)

Permit requirements and monitoring location changes did not allow the stations to be ready for wet weather monitoring early in the wet season. As a result, the City was only able to capture one wet weather monitoring event. Equipment failures at West Lane caused the loss of the sample from the wet weather event.

Dry weather storm sampling on June 25 at West Lane demonstrated a large organic pollutant load in the wet well. This material was contained in the wet well and cleaned without a discharge to the receiving water. The contaminated water was diverted to the sanitary system for treatment.

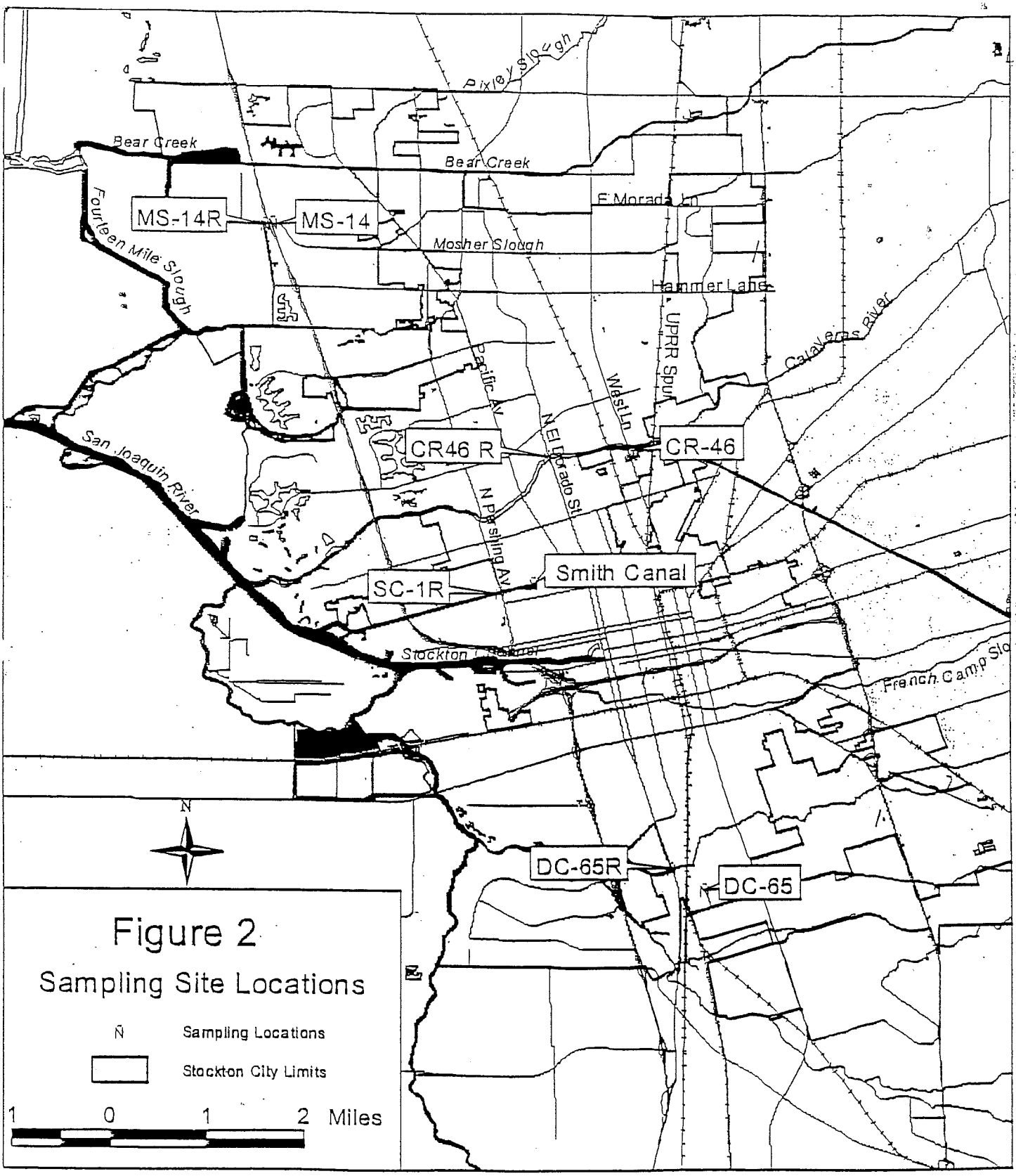
Pixley Slough
Bear Creek
Bear Creek
MS-14R
MS-14
Fourteen Mile Slough
Mosher Slough
E Morada Ln
Hammer Lane
UPRR Spur
Calaveras River
Pacific Av
West Ln
CR46 R
CR-46
N El Dorado St
San Joaquin River
N Pershing Av
Smith Canal
SC-1R
Stockton Channel
French Camp Slo
DC-65R
DC-65
N
Figure 2
Sampling Site Locations
Sampling Locations
Stockton City Limits
1 0 1 2 Miles

TABLE 2: KELLEY DRIVE RECEIVING WATER WET WEATHER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	30	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.328	
BOD	2	EPA 405.1	2	0.5	17	
Chloride	2	EPA 300.0	1	0.1	3.6	
COD	20-900	EPA 410.1	10	0.22	33	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	152	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.066	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.53	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.11	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.44	
TDS	2	EPA 160.1	2	1	56	
TKN	0.1	EPA 351.3	0.1	0.018	2.1	
TOC	1	EPA 415.1	1	0.072	13	
Total Hardness	2	EPA 130.2	2	1	51.5	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	68	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	38	
TVS	2	EPA 160.4	2	1	63	

Total Recoverable

Al	100	EPA 200.8	50	0.2	4.2	
Sb	0.5	EPA 200.8	0.5	0.04	0.95	
As	1	EPA 200.8	1	0.06	1.1	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd ✓	0.25	EPA 200.8	0.2	0.02	0.043	
Cr ✓	0.5	EPA 200.8	0.5	0.03	0.7	
Cu ✓	0.5	EPA 200.8	0.5	0.04	4.4	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	900	
Pb ✓	0.5	EPA 200.8	0.5	0.02	0.15	
Hg	0.5	EPA 245.7	0.005	0.001	0.012	
Ni ✓	1	EPA 200.8	1	0.04	2.9	
Se	1	EPA 200.8	1	0.1	0.27	
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn ✓	1	EPA 200.8	1	0.06	30	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	15	
Sb	0.5	EPA 200.8	0.5	0.04	0.63	
As	1	EPA 200.8	1	0.06	2.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	
Cr	0.5	EPA 200.8	0.5	0.03	0.87	
Cu	0.5	EPA 200.8	0.5	0.04	4.9	
Fe	100	EPA 236.1	100	50	47	
Pb	0.5	EPA 200.8	0.5	0.02	0.031	
Hg	0.5	EPA 245.7	0.005	0.001	0.008	
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.37	
Ag	0.25	EPA 200.8	0.2	0.02	0.078	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	34	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	30000	
Fecal Coliform	200	SM9221 C, E	200	200	2700	
E. coli	200	40 CFR 141.21 (f	200	200	2700	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	0.045	J
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.063	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.18	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.43	
Dimethyl phthalate	2	0.1	0.03	0.068	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.077	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.07	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.2	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 2: KELLEY DRIVE DRY WEATHER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	240	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.32	
BOD	2	EPA 405.1	2	0.5	4	
Chloride	2	EPA 300.0	1	0.1	56	
COD	20-900	EPA 410.1	10	0.22	58	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	638	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.16	
MBAS	0.5	EPA 425.1	0.02	0.01	0.027	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	3.9	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.28	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.47	
TDS	2	EPA 160.1	2	1	432	
TKN	0.1	EPA 351.3	0.1	0.018	1.2	
TOC	1	EPA 415.1	1	0.072	6.4	
Total Hardness	2	EPA 130.2	2	1	218	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	76	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	2.5	
TVS	2	EPA 160.4	2	1	22	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	11	J
Sb	0.5	EPA 200.8	0.5	0.04	0.2	J
As	1	EPA 200.8	1	0.06	12	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.083	J
Cr	0.5	EPA 200.8	0.5	0.03	0.97	
Cu	0.5	EPA 200.8	0.5	0.04	6.9	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	40	
Pb	0.5	EPA 200.8	0.5	0.02	0.15	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0016	J
Ni	1	EPA 200.8	1	0.04	1.8	
Se	1	EPA 200.8	2	0.14	0.37	J
Ag	0.25	EPA 200.8	0.2	0.02	0.019	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	45	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	9.2	J
Sb	0.5	EPA 200.8	0.5	0.04	0.42	J
As	1	EPA 200.8	1	0.06	11	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.095	J
Cr	0.5	EPA 200.8	0.5	0.03	1.2	
Cu	0.5	EPA 200.8	0.5	0.04	6.8	
Fe	100	EPA 236.1	100	50	ND	
Pb	0.5	EPA 200.8	0.5	0.02	0.54	J
Hg	0.5	EPA 245.7	0.005	0.001	0.002	J
Ni	1	EPA 200.8	1	0.04	1.8	
Se	1	EPA 200.8	1	0.1	0.99	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	16	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	17000	
Fecal Coliform	200	SM9221 C, E	200	200	3000	
E. coli	200	40 CFR 141.21 (f	200	200	2300	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	0.11	J
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.055	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.13	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.4	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 2: KELLEY DRIVE DRY WEATHER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	280	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	74	
COD	20-900	EPA 410.1	10	0.22	60	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	849	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.023	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	5.2	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.21	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.49	
TDS	2	EPA 160.1	2	1	588	
TKN	0.1	EPA 351.3	0.1	0.018	1.2	
TOC	1	EPA 415.1	1	0.072	7.5	
Total Hardness	2	EPA 130.2	2	1	201	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	4	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	3.1	
TVS	NA	EPA 160.4	2	1	106	

Total Recoverable

Al	100	EPA 200.8	50	0.2	22	J
Sb	0.5	EPA 200.8	0.5	0.04	1.1	
As	1	EPA 200.8	1	0.06	8.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.74	J
Cr	0.5	EPA 200.8	0.5	0.03	1.5	
Cu	0.5	EPA 200.8	0.5	0.04	5.5	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	50	
Pb	0.5	EPA 200.8	0.5	0.02	1.7	
Hg	0.5	EPA 245.7	0.005	0.001	0.0076	
Ni	1	EPA 200.8	1	0.04	1.8	
Se	1	EPA 200.8	2	0.14	1.1	
Ag	0.25	EPA 200.8	0.2	0.02	0.37	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	35	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	1.5	J
Sb	0.5	EPA 200.8	0.5	0.04	1.3	
As	1	EPA 200.8	1	0.06	10	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.062	J
Cr	0.5	EPA 200.8	0.5	0.03	1.7	
Cu	0.5	EPA 200.8	0.5	0.04	4.6	
Fe	100	EPA 236.1	100	50	ND	
Pb	0.5	EPA 200.8	0.5	0.02	0.94	
Hg	0.5	EPA 245.7	0.005	0.001	0.003	J
Ni	1	EPA 200.8	1	0.04	1.6	
Se	1	EPA 200.8	1	0.1	2	
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	25	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	80000	
Fecal Coliform	200	SM9221 C, E	200	200	17000	
E. coli	200	40 CFR 141.21 (f	200	200	4000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	0.057	J
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.036	J
Pentachlorophenol	2	0.5	0.14	0.55	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	0.12	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	
Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	

Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	3	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 3: WEST LANE DRY WEATHER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	130	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	1.2	
BOD	2	EPA 405.1	2	0.5	4.3	
Chloride	2	EPA 300.0	1	0.1	12	
COD	20-900	EPA 410.1	10	0.22	110	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	284	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.12	
MBAS	0.5	EPA 425.1	0.02	0.01	0.11	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.012	J
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.26	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.65	
TDS	2	EPA 160.1	2	1	190	
TKN	0.1	EPA 351.3	0.1	0.018	1.9	
TOC	1	EPA 415.1	1	0.072	11	
Total Hardness	2	EPA 130.2	2	1	132	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	8	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	6.1	
TVS	NA	EPA 160.4	2	1	36	

Total Recoverable

Al	100	EPA 200.8	50	0.2	48	J
Sb	0.5	EPA 200.8	0.5	0.04	0.49	J
As	1	EPA 200.8	1	0.06	2.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.25	
Cr	0.5	EPA 200.8	0.5	0.03	1.1	
Cu	0.5	EPA 200.8	0.5	0.04	3.8	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	1200	
Pb	0.5	EPA 200.8	0.5	0.02	1.7	
Hg	0.5	EPA 245.7	0.005	0.001	0.014	
Ni	1	EPA 200.8	1	0.04	3.9	
Se	1	EPA 200.8	2	0.14	0.51	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	42	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	5.6	J
Sb	0.5	EPA 200.8	0.5	0.04	0.33	J
As	1	EPA 200.8	1	0.06	2.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.043	J
Cr	0.5	EPA 200.8	0.5	0.03	0.99	
Cu	0.5	EPA 200.8	0.5	0.04	1.1	
Fe	100	EPA 236.1	100	50	170	
Pb	0.5	EPA 200.8	0.5	0.02	0.24	J
Hg	0.5	EPA 245.7	0.005	0.001	0.012	
Ni	1	EPA 200.8	1	0.04	3.7	
Se	1	EPA 200.8	1	0.1	0.6	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	11	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	23000	
Fecal Coliform	200	SM9221 C, E	200	200	8000	
E. coli	200	40 CFR 141.21 (f	200	200	8000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	0.077	J
2,4-Dimethylphenol	2	1	0.04	0.08	J
2,4-Dinitrophenol	5	0.5	0.16		
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	0.56	J
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.3	
Dimethyl phthalate	2	0.1	0.03	0.042	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.11	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	0.0029	J
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.29	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.1	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 3: WEST LANE DRY WEATHER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	200	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.399	
BOD	2	EPA 405.1	2	0.5	15	
Chloride	2	EPA 300.0	1	0.1	18	
COD	20-900	EPA 410.1	10	0.22	120	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	439	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.29	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	ND	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.43	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	1.3	
TDS	2	EPA 160.1	2	1	348	
TKN	0.1	EPA 351.3	0.1	0.018	2.7	
TOC	1	EPA 415.1	1	0.072	35	
Total Hardness	2	EPA 130.2	2	1	173	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	22	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	20	
TVS	NA	EPA 160.4	2	1	96	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	240	
Sb	0.5	EPA 200.8	0.5	0.04	1.4	
As	1	EPA 200.8	1	0.06	3.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.25	J
Cr	0.5	EPA 200.8	0.5	0.03	3.2	
Cu	0.5	EPA 200.8	0.5	0.04	11	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2000	
Pb	0.5	EPA 200.8	0.5	0.02	6.4	
Hg	0.5	EPA 245.7	0.005	0.001	0.0095	
Ni	1	EPA 200.8	1	0.04	5.7	
Se	1	EPA 200.8	2	0.14	1.1	
Ag	0.25	EPA 200.8	0.2	0.02	0.25	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	160	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	1.5	J
Sb	0.5	EPA 200.8	0.5	0.04	0.73	J
As	1	EPA 200.8	1	0.06	2.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.18	J
Cr	0.5	EPA 200.8	0.5	0.03	1.1	
Cu	0.5	EPA 200.8	0.5	0.04	0.44	J
Fe	100	EPA 236.1	100	50	400	
Pb	0.5	EPA 200.8	0.5	0.02	0.21	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0074	J
Ni	1	EPA 200.8	1	0.04	4.7	
Se	1	EPA 200.8	1	0.1	0.47	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	16	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	3000000	
Fecal Coliform	200	SM9221 C, E	200	200	8000	
E. coli	200	40 CFR 141.21 (f	200	200	2200	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	0.26	
Phenol	1	0.3	0.3	6.4	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	2.8	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	0.42	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.43	
Dimethyl phthalate	2	0.1	0.03	0.06	J
di-n-Butyl phthalate	10	0.4	0.4	7.5	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	0.08	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	0.11	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	6.9	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	0.0018	J
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	0.0012	J
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	0.0032	J
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.6	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 4: DUCK CREEK WET WEATHER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	23	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.518	
BOD	2	EPA 405.1	2	0.5	14	
Chloride	2	EPA 300.0	1	0.1	3	
COD	20-900	EPA 410.1	10	0.22	77	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	66.7	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.66	
MBAS	0.5	EPA 425.1	0.02	0.01	0.15	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.64	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.21	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.57	
TDS	2	EPA 160.1	2	1	62	
TKN	0.1	EPA 351.3	0.1	0.018	1.7	
TOC	1	EPA 415.1	1	0.072	16	
Total Hardness	2	EPA 130.2	2	1	45.4	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	106	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	56	
TVS	2	EPA 160.4	2	1	52	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	1200	
Sb	0.5	EPA 200.8	0.5	0.04	0.5	
As	1	EPA 200.8	1	0.06	2.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.24	
Cr	0.5	EPA 200.8	0.5	0.03	3	
Cu	0.5	EPA 200.8	0.5	0.04	13	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2400	
Pb	0.5	EPA 200.8	0.5	0.02	4.3	
Hg	0.5	EPA 245.7	0.005	0.001	0.011	
Ni	1	EPA 200.8	1	0.04	5.2	
Se	1	EPA 200.8	2	0.14	0.37	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	160	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	15	J
Sb	0.5	EPA 200.8	0.5	0.04	0.63	
As	1	EPA 200.8	1	0.06	2.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	J
Cr	0.5	EPA 200.8	0.5	0.03	0.87	
Cu	0.5	EPA 200.8	0.5	0.04	4.9	
Fe	100	EPA 236.1	100	50	61	
Pb	0.5	EPA 200.8	0.5	0.02	0.031	J
Hg	0.5	EPA 245.7	0.005	0.001	0.007	
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.37	J
Ag	0.25	EPA 200.8	0.2	0.02	0.078	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	34	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	30000	
Fecal Coliform	200	SM9221 C, E	200	200	2300	
E. coli	200	40 CFR 141.21 (f	200	200	2300	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.084	J
Pentachlorophenol	2	0.5	0.14		
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.13	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	0.074	J
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.79	
Dimethyl phthalate	2	0.1	0.03	0.19	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	0.045	J
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	1.3	
di-n-Octyl phthalate	10	0.2	0.1	0.15	J
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.095	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	0.019	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.48	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 4: DUCK CREEK DRY WEATHER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	160	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.688	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	21	
COD	20-900	EPA 410.1	10	0.22	53	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	375	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.053	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.3	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.94	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	1	
TDS	2	EPA 160.1	2	1	352	
TKN	0.1	EPA 351.3	0.1	0.018	1.7	
TOC	1	EPA 415.1	1	0.072	14	
Total Hardness	2	EPA 130.2	2	1	91.4	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	8	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	15	
TVS	NA	EPA 160.4	2	1	72	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	320	
Sb	0.5	EPA 200.8	0.5	0.04	0.43	J
As	1	EPA 200.8	1	0.06	11	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.08	J
Cr	0.5	EPA 200.8	0.5	0.03	2.6	
Cu	0.5	EPA 200.8	0.5	0.04	4.1	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	780	
Pb	0.5	EPA 200.8	0.5	0.02	0.77	
Hg	0.5	EPA 245.7	0.005	0.001	0.0014	J
Ni	1	EPA 200.8	1	0.04	3.5	
Se	1	EPA 200.8	2	0.14	ND	
Ag	0.25	EPA 200.8	0.2	0.02	0.16	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	46	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	11	J
Sb	0.5	EPA 200.8	0.5	0.04	0.24	J
As	1	EPA 200.8	1	0.06	13	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.032	J
Cr	0.5	EPA 200.8	0.5	0.03	0.82	
Cu	0.5	EPA 200.8	0.5	0.04	2	J
Fe	100	EPA 236.1	100	50	160	
Pb	0.5	EPA 200.8	0.5	0.02	0.19	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0016	J
Ni	1	EPA 200.8	1	0.04	2.8	
Se	1	EPA 200.8	1	0.1	0.47	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	41	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	8000	
Fecal Coliform	200	SM9221 C, E	200	200	3000	
E. coli	200	40 CFR 141.21 (f	200	200	3000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	0.15	J
4-Chloro-3-methylphenol	1	0.1	0.03	0.062	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	0.067	J
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	0.042	J
Fluorene	0.1	0.1	0.03	0.059	J
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	0.042	J
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	0.11	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.37	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 4: DUCK CREEK DRY WEATHER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	140	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	1.9	
BOD	2	EPA 405.1	2	0.5	5	
Chloride	2	EPA 300.0	1	0.1	28	
COD	20-900	EPA 410.1	10	0.22	42	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	284	
Fluoride	0.1	EPA 300.0	0.1	0.05	2.3	
MBAS	0.5	EPA 425.1	0.02	0.01	0.1	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.058	J
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	2.3	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	2.6	
TDS	2	EPA 160.1	2	1	260	
TKN	0.1	EPA 351.3	0.1	0.018	2.8	
TOC	1	EPA 415.1	1	0.072	19	
Total Hardness	2	EPA 130.2	2	1	116	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	18	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	14	
TVS	NA	EPA 160.4	2	1	58	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	260	
Sb	0.5	EPA 200.8	0.5	0.04	0.17	J
As	1	EPA 200.8	1	0.06	7.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.2	
Cr	0.5	EPA 200.8	0.5	0.03	1.3	
Cu	0.5	EPA 200.8	0.5	0.04	6	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	1400	
Pb	0.5	EPA 200.8	0.5	0.02	1.1	
Hg	0.5	EPA 245.7	0.005	0.001	0.0029	J
Ni	1	EPA 200.8	1	0.04	9.5	
Se	1	EPA 200.8	2	0.14	ND	
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	37	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	20	J
Sb	0.5	EPA 200.8	0.5	0.04	0.19	J
As	1	EPA 200.8	1	0.06	9	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.056	J
Cr	0.5	EPA 200.8	0.5	0.03	0.67	
Cu	0.5	EPA 200.8	0.5	0.04	2.7	
Fe	100	EPA 236.1	100	50	330	
Pb	0.5	EPA 200.8	0.5	0.02	0.22	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0018	J
Ni	1	EPA 200.8	1	0.04	4.4	
Se	1	EPA 200.8	1	0.1	0.33	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	26	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	300000	
Fecal Coliform	200	SM9221 C, E	200	200	30000	
E. coli	200	40 CFR 141.21 (f	200	200	30000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	0.05	J
2,4-Dinitrophenol	5	0.5	0.16	0.16	J
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	0.77	
4-Chloro-3-methylphenol	1	0.1	0.03	0.077	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	0.14	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	0.12	J
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	0.043	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	0.16	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.18	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.29	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE5: SMITH CANAL WET WEATHER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	23	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.518	
BOD	2	EPA 405.1	2	0.5	14	
Chloride	2	EPA 300.0	1	0.1	3	
COD	20-900	EPA 410.1	10	0.22	77	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	69.7	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.66	
MBAS	0.5	EPA 425.1	0.02	0.01	0.15	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.64	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.21	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.57	
TDS	2	EPA 160.1	2	1	62	
TKN	0.1	EPA 351.3	0.1	0.018	1.7	
TOC	1	EPA 415.1	1	0.072	16	
Total Hardness	2	EPA 130.2	2	1	25.2	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	106	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	56	
TVS	NA	EPA 160.4	1	1	66	

Total Recoverable

Al	100	EPA 200.8	50	0.2	360	
Sb	0.5	EPA 200.8	0.5	0.04	0.51	
As	1	EPA 200.8	1	0.06	1.6	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.14	J
Cr	0.5	EPA 200.8	0.5	0.03	1.8	
Cu	0.5	EPA 200.8	0.5	0.04	16	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2400	
Pb	0.5	EPA 200.8	0.5	0.02	7.9	
Hg	0.5	EPA 245.7	0.005	0.001	0.012	
Ni	1	EPA 200.8	1	0.04	3.9	
Se	1	EPA 200.8	2	0.14	0.24	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	82	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	27	J
Sb	0.5	EPA 200.8	0.5	0.04	0.67	
As	1	EPA 200.8	1	0.06	1.9	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.078	J
Cr	0.5	EPA 200.8	0.5	0.03	1.2	
Cu	0.5	EPA 200.8	0.5	0.04	10	
Fe	100	EPA 236.1	100	50	61	
Pb	0.5	EPA 200.8	0.5	0.02	1	
Hg	0.5	EPA 245.7	0.005	0.001	0.017	
Ni	1	EPA 200.8	1	0.04	2.8	
Se	1	EPA 200.8	1	0.1	0.36	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	70	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	700000	
Fecal Coliform	200	SM9221 C, E	200	200	80000	
E. coli	200	40 CFR 141.21 (f	200	200	80000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.084	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.13	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	0.074	J
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.79	
Dimethyl phthalate	2	0.1	0.03	0.19	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	0.045	J
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	1.3	
di-n-Octyl phthalate	10	0.2	0.1	0.15	J
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.095	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	0.0077	J
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.016	
4,4'-DDE	0.05	0.01	0.0059	0.0098	J
4,4'-DDT	0.01	0.01	0.0031	0.061	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.055	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.6	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 5: SMITH CANAL DRY WEATHER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	180	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.28	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	52	
COD	20-900	EPA 410.1	10	0.22	38	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	517	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.14	
MBAS	0.5	EPA 425.1	0.02	0.01	0.022	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	2.2	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.28	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.41	
TDS	2	EPA 160.1	2	1	348	
TKN	0.1	EPA 351.3	0.1	0.018	0.86	
TOC	1	EPA 415.1	1	0.072	4	
Total Hardness	2	EPA 130.2	2	1	188	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	ND	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	2	
TVS	NA	EPA 160.4	2	1	46	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	25	J
Sb	0.5	EPA 200.8	0.5	0.04	0.35	J
As	1	EPA 200.8	1	0.06	8.6	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.047	J
Cr	0.5	EPA 200.8	0.5	0.03	1.8	
Cu	0.5	EPA 200.8	0.5	0.04	2.7	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	83	
Pb	0.5	EPA 200.8	0.5	0.02	0.55	
Hg	0.5	EPA 245.7	0.005	0.001	0.0028	J
Ni	1	EPA 200.8	1	0.04	1.9	
Se	1	EPA 200.8	2	0.14	0.25	J
Ag	0.25	EPA 200.8	0.2	0.02	0.053	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	23	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	5.7	J
Sb	0.5	EPA 200.8	0.5	0.04	0.13	J
As	1	EPA 200.8	1	0.06	11	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.065	J
Cr	0.5	EPA 200.8	0.5	0.03	2.2	
Cu	0.5	EPA 200.8	0.5	0.04	2	
Fe	100	EPA 236.1	100	50	31	
Pb	0.5	EPA 200.8	0.5	0.02	0.28	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0036	J
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.99	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	14	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	9000	
Fecal Coliform	200	SM9221 C, E	200	200	2100	
E. coli	200	40 CFR 141.21 (f	200	200	2100	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	0.032	J
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	0.065	J
4-Chloro-3-methylphenol	1	0.1	0.03	0.054	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,i)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.074	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.82	
Dimethyl phthalate	2	0.1	0.03	0.059	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	4	J
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.0031	J
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	0.0018	J
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.83	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 5: SMITH CANAL DRY WEATHER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	180	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.791	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	54	
COD	20-900	EPA 410.1	10	0.22	65	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	548	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.073	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	1.7	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.41	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.64	
TDS	2	EPA 160.1	2	1	346	
TKN	0.1	EPA 351.3	0.1	0.018	1.2	
TOC	1	EPA 415.1	1	0.072	4.9	
Total Hardness	2	EPA 130.2	2	1	162	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	ND	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	1.5	
TVS	NA	EPA 160.4	2	1	56	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	25	J
Sb	0.5	EPA 200.8	0.5	0.04	0.3	J
As	1	EPA 200.8	1	0.06	7.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.053	J
Cr	0.5	EPA 200.8	0.5	0.03	2.1	
Cu	0.5	EPA 200.8	0.5	0.04	2.8	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	110	
Pb	0.5	EPA 200.8	0.5	0.02	0.62	
Hg	0.5	EPA 245.7	0.005	0.001	0.0046	J
Ni	1	EPA 200.8	1	0.04	1.6	
Se	1	EPA 200.8	2	0.14	0.17	J
Ag	0.25	EPA 200.8	0.2	0.02	0.11	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	23	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	8.9	J
Sb	0.5	EPA 200.8	0.5	0.04	0.065	J
As	1	EPA 200.8	1	0.06	9.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.032	J
Cr	0.5	EPA 200.8	0.5	0.03	1.4	
Cu	0.5	EPA 200.8	0.5	0.04	1.8	J
Fe	100	EPA 236.1	100	50	52	
Pb	0.5	EPA 200.8	0.5	0.02	0.27	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0033	J
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.84	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	14	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	1300000	
Fecal Coliform	200	SM9221 C, E	200	200	800000	
E. coli	200	40 CFR 141.21 (f	200	200	270000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,i)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.073	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	0.61	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	0.032	J
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.0066	J
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	0.0015	J
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.97	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 6: KELLEY DRIVE RECEIVING WATER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	27	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.197	
BOD	2	EPA 405.1	2	0.5	10	
Chloride	2	EPA 300.0	1	0.1	4.2	
COD	20-900	EPA 410.1	10	0.22	49	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	76.6	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.11	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.51	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.11	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.34	
TDS	2	EPA 160.1	2	1	62	
TKN	0.1	EPA 351.3	0.1	0.018	1.5	
TOC	1	EPA 415.1	1	0.072	14	
Total Hardness	2	EPA 130.2	2	1	29.3	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	30	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	29	
TVS	2	EPA 160.4	2	1	49	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	880	
Sb	0.5	EPA 200.8	0.5	0.04	0.55	
As	1	EPA 200.8	1	0.06	1.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.063	J
Cr	0.5	EPA 200.8	0.5	0.03	2.4	
Cu	0.5	EPA 200.8	0.5	0.04	12	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	1200	
Pb	0.5	EPA 200.8	0.5	0.02	3.6	
Hg	0.5	EPA 245.7	0.005	0.001	0.021	
Ni	1	EPA 200.8	1	0.04	3.6	
Se	1	EPA 200.8	2	0.14	0.38	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	37	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	20	J
Sb	0.5	EPA 200.8	0.5	0.04	0.47	J
As	1	EPA 200.8	1	0.06	1.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.025	J
Cr	0.5	EPA 200.8	0.5	0.03	0.71	
Cu	0.5	EPA 200.8	0.5	0.04	6.3	
Fe	100	EPA 236.1	100	50	160	
Pb	0.5	EPA 200.8	0.5	0.02	0.44	J
Hg	0.5	EPA 245.7	0.005	0.001	0.008	
Ni	1	EPA 200.8	1	0.04	2.1	
Se	1	EPA 200.8	1	0.1	0.19	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	25	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	1100000	
Fecal Coliform	200	SM9221 C, E	200	200	40000	
E. coli	200	40 CFR 141.21 (f	200	200	40000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes*
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	0.028	J
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.13	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,i)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.16	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	0.055	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	0.23	J
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	0.12	J
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.11	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.5	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 6: KELLEY DRIVE DRY WEATHER RECEIVING WATER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	92	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.32	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	9	
COD	20-900	EPA 410.1	10	0.22	34	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	206	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.13	
MBAS	0.5	EPA 425.1	0.02	0.01	0.03	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.26	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.15	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.22	
TDS	2	EPA 160.1	2	1	132	
TKN	0.1	EPA 351.3	0.1	0.018	0.78	
TOC	1	EPA 415.1	1	0.072	5.5	
Total Hardness	2	EPA 130.2	2	1	96	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	10	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	13	
TVS	NA	EPA 160.4	2	1	10	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	320	
Sb	0.5	EPA 200.8	0.5	0.04	0.089	J
As	1	EPA 200.8	1	0.06	2.1	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.023	J
Cr	0.5	EPA 200.8	0.5	0.03	0.8	
Cu	0.5	EPA 200.8	0.5	0.04	2.4	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	630	
Pb	0.5	EPA 200.8	0.5	0.02	1.3	
Hg	0.5	EPA 245.7	0.005	0.001	0.0034	J
Ni	1	EPA 200.8	1	0.04	2.9	
Se	1	EPA 200.8	2	0.14	0.22	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	7.9	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	26	J
Sb	0.5	EPA 200.8	0.5	0.04	0.4	J
As	1	EPA 200.8	1	0.06	2.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.028	J
Cr	0.5	EPA 200.8	0.5	0.03	0.57	
Cu	0.5	EPA 200.8	0.5	0.04	1.7	
Fe	100	EPA 236.1	100	50	99	
Pb	0.5	EPA 200.8	0.5	0.02	0.33	J
Hg	0.5	EPA 245.7	0.005	0.001	0.003	J
Ni	1	EPA 200.8	1	0.04	2	
Se	1	EPA 200.8	1	0.1	0.43	J
Ag	0.25	EPA 200.8	0.2	0.02	0.13	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	4.8	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	5000	
Fecal Coliform	200	SM9221 C, E	200	200	800	
E. coli	200	40 CFR 141.21 (f	200	200	800	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.045	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.48	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 6: KELLEY DRIVE DRY WEATHER RECEIVING WATER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	100	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	7.7	
COD	20-900	EPA 410.1	10	0.22	26	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	226	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.023	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.13	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.079	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.16	
TDS	2	EPA 160.1	2	1	164	
TKN	0.1	EPA 351.3	0.1	0.018	0.6	
TOC	1	EPA 415.1	1	0.072	3.9	
Total Hardness	2	EPA 130.2	2	1	97.5	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	12	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	17	
TVS	NA	EPA 160.4	2	1	32	

Total Recoverable

Al	100	EPA 200.8	50	0.2	470	
Sb	0.5	EPA 200.8	0.5	0.04	0.26	J
As	1	EPA 200.8	1	0.06	2.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	
Cr	0.5	EPA 200.8	0.5	0.03	1.8	
Cu	0.5	EPA 200.8	0.5	0.04	2.2	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	850	
Pb	0.5	EPA 200.8	0.5	0.02	1.4	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0057	
Ni	1	EPA 200.8	1	0.04	1.9	
Se	1	EPA 200.8	2	0.14	1.1	
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	10	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	20	J
Sb	0.5	EPA 200.8	0.5	0.04	ND	
As	1	EPA 200.8	1	0.06	1.7	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	
Cr	0.5	EPA 200.8	0.5	0.03	0.32	J
Cu	0.5	EPA 200.8	0.5	0.04	1.1	
Fe	100	EPA 236.1	100	50	79	
Pb	0.5	EPA 200.8	0.5	0.02	0.33	J
Hg	0.5	EPA 245.7	0.005	0.001	0.001	J
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.33	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	7.9	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	1400	
Fecal Coliform	200	SM9221 C, E	200	200	400	
E. coli	200	40 CFR 141.21 (f	200	200	400	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.043	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	0.031	J
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	0.037	J
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.18	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 7: WEST LANE DRY WEATHER RECEIVING WATER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	110	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	6.2	
Chloride	2	EPA 300.0	1	0.1	32	
COD	20-900	EPA 410.1	10	0.22	62	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	308	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.14	
MBAS	0.5	EPA 425.1	0.02	0.01	ND	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.011	J
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	ND	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.032	
TDS	2	EPA 160.1	2	1	190	
TKN	0.1	EPA 351.3	0.1	0.018	1.6	
TOC	1	EPA 415.1	1	0.072	7.9	
Total Hardness	2	EPA 130.2	2	1	112	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	24	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	24	
TVS	NA	EPA 160.4	2	1	42	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	290	
Sb	0.5	EPA 200.8	0.5	0.04	0.64	J
As	1	EPA 200.8	1	0.06	2.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.045	J
Cr	0.5	EPA 200.8	0.5	0.03	1.1	
Cu	0.5	EPA 200.8	0.5	0.04	4	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	600	
Pb	0.5	EPA 200.8	0.5	0.02	1.3	
Hg	0.5	EPA 245.7	0.005	0.001	0.001	
Ni	1	EPA 200.8	1	0.04	3.7	
Se	1	EPA 200.8	2	0.14	0.24	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	17	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	1.5	J
Sb	0.5	EPA 200.8	0.5	0.04	0.76	
As	1	EPA 200.8	1	0.06	2.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.047	J
Cr	0.5	EPA 200.8	0.5	0.03	0.48	J
Cu	0.5	EPA 200.8	0.5	0.04	2.5	
Fe	100	EPA 236.1	100	50	16	J
Pb	0.5	EPA 200.8	0.5	0.02	0.16	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0081	
Ni	1	EPA 200.8	1	0.04	2.1	
Se	1	EPA 200.8	1	0.1	0.59	J
Ag	0.25	EPA 200.8	0.2	0.02	0.065	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	6.5	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	8000	
Fecal Coliform	200	SM9221 C, E	200	200	1300	
E. coli	200	40 CFR 141.21 (f	200	200	1300	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	0.1	J
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.38	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 7: WEST LANE DRY WEATHER RECEIVING WATER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	94	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	9.8	
COD	20-900	EPA 410.1	10	0.22	29	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	223	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.02	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.11	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	ND	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.067	
TDS	2	EPA 160.1	2	1	144	
TKN	0.1	EPA 351.3	0.1	0.018	0.32	
TOC	1	EPA 415.1	1	0.072	3.6	
Total Hardness	2	EPA 130.2	2	1	95.4	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	6	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	8.4	
TVS	NA	EPA 160.4	2	1	18	

Total Recoverable

Al	100	EPA 200.8	50	0.2	250	
Sb	0.5	EPA 200.8	0.5	0.04	0.26	J
As	1	EPA 200.8	1	0.06	0.77	J
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.019	J
Cr	0.5	EPA 200.8	0.5	0.03	1.8	
Cu	0.5	EPA 200.8	0.5	0.04	2.3	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	360	
Pb	0.5	EPA 200.8	0.5	0.02	0.56	
Hg	0.5	EPA 245.7	0.005	0.001	0.004	J
Ni	1	EPA 200.8	1	0.04	1.8	
Se	1	EPA 200.8	2	0.14	ND	
Ag	0.25	EPA 200.8	0.2	0.02	0.079	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	10	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	3.3	J
Sb	0.5	EPA 200.8	0.5	0.04	ND	
As	1	EPA 200.8	1	0.06	1.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	
Cr	0.5	EPA 200.8	0.5	0.03	0.33	J
Cu	0.5	EPA 200.8	0.5	0.04	1.3	
Fe	100	EPA 236.1	100	50	ND	
Pb	0.5	EPA 200.8	0.5	0.02	0.13	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0037	J
Ni	1	EPA 200.8	1	0.04	1.1	
Se	1	EPA 200.8	1	0.1	0.29	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	4.7	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	1700	
Fecal Coliform	200	SM9221 C, E	200	200	200	
E. coli	200	40 CFR 141.21 (f	200	200	200	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.048	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.24	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 7: WEST LANE RECEIVING WATER WET WEATHER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	44	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.105	
BOD	2	EPA 405.1	2	0.5	11	
Chloride	2	EPA 300.0	1	0.1	17	
COD	20-900	EPA 410.1	10	0.22	49	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	152	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.2	
MBAS	0.5	EPA 425.1	0.02	0.01	0.079	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.51	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.2	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.28	
TDS	2	EPA 160.1	2	1	102	
TKN	0.1	EPA 351.3	0.1	0.018	1.7	
TOC	1	EPA 415.1	1	0.072	12	
Total Hardness	2	EPA 130.2	2	1	51.5	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	54	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	27	
TVS	2	EPA 160.4	2	1	59	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	1100	
Sb	0.5	EPA 200.8	0.5	0.04	0.92	
As	1	EPA 200.8	1	0.06	1.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.086	J
Cr	0.5	EPA 200.8	0.5	0.03	3.4	
Cu	0.5	EPA 200.8	0.5	0.04	9.3	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	1400	
Pb	0.5	EPA 200.8	0.5	0.02	3.5	
Hg	0.5	EPA 245.7	0.005	0.001	0.012	
Ni	1	EPA 200.8	1	0.04	5.5	
Se	1	EPA 200.8	1	0.1	0.4	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	38	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	15	J
Sb	0.5	EPA 200.8	0.5	0.04	0.63	
As	1	EPA 200.8	1	0.06	2.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	J
Cr	0.5	EPA 200.8	0.5	0.03	0.87	
Cu	0.5	EPA 200.8	0.5	0.04	4.9	
Fe	100	EPA 236.1	100	50	58	
Pb	0.5	EPA 200.8	0.5	0.02	0.031	J
Hg	0.5	EPA 245.7	0.005	0.001	0.008	
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	0.37	J
Ag	0.25	EPA 200.8	0.2	0.02	0.078	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	34	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	80000	
Fecal Coliform	200	SM9221 C, E	200	200	3400	
E. coli	200	40 CFR 141.21 (f	200	200	3400	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	0.088	J
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.046	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	0.068	J
Benzo(g,h,i)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.11	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	0.32	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	0.12	J
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.1	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	0.07	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.2	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 8: DUCK CREEK RECEIVING WATER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	76	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.205	
BOD	2	EPA 405.1	2	0.5	3.1	J
Chloride	2	EPA 300.0	1	0.1	17	
COD	20-900	EPA 410.1	10	0.22	44	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	196	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.11	
MBAS	0.5	EPA 425.1	0.02	0.01	ND	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.35	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.016	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.32	
TDS	2	EPA 160.1	2	1	158	
TKN	0.1	EPA 351.3	0.1	0.018	1	
TOC	1	EPA 415.1	1	0.072	8.9	
Total Hardness	2	EPA 130.2	2	1	66.7	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	40	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	49	
TVS	2	EPA 160.4	2	1	52	

Total Recoverable

Al	100	EPA 200.8	50	0.2	650	
Sb	0.5	EPA 200.8	0.5	0.04	0.23	J
As	1	EPA 200.8	1	0.06	2.9	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.24	
Cr	0.5	EPA 200.8	0.5	0.03	1.6	
Cu	0.5	EPA 200.8	0.5	0.04	7.4	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	3200	
Pb	0.5	EPA 200.8	0.5	0.02	2.7	
Hg	0.5	EPA 245.7	0.005	0.001	0.001	J
Ni	1	EPA 200.8	1	0.04	5	
Se	1	EPA 200.8	2	0.14	0.22	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	22	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	340	
Sb	0.5	EPA 200.8	0.5	0.04	0.38	J
As	1	EPA 200.8	1	0.06	3.5	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.1	J
Cr	0.5	EPA 200.8	0.5	0.03	1.1	
Cu	0.5	EPA 200.8	0.5	0.04	5.8	
Fe	100	EPA 236.1	100	50	210	
Pb	0.5	EPA 200.8	0.5	0.02	0.34	J
Hg	0.5	EPA 245.7	0.005	0.001	0.005	
Ni	1	EPA 200.8	1	0.04	4.3	
Se	1	EPA 200.8	1	0.1	0.18	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	18	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	8000	
Fecal Coliform	200	SM9221 C, E	200	200	200	
E. coli	200	40 CFR 141.21 (f	200	200	200	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	0.049	J
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.063	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	0.043	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.49	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 8: DUCK CREEK DRY WEATHER RECEIVING WATER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	58	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.22	
BOD	2	EPA 405.1	2	0.5	4	
Chloride	2	EPA 300.0	1	0.1	6.5	
COD	20-900	EPA 410.1	10	0.22	36	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	131	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.11	
MBAS	0.5	EPA 425.1	0.02	0.01	ND	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	1.095	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.2	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.14	
TDS	2	EPA 160.1	2	1	104	
TKN	0.1	EPA 351.3	0.1	0.018	1	
TOC	1	EPA 415.1	1	0.072	5.1	
Total Hardness	2	EPA 130.2	2	1	62	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	36	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	50	
TVS	NA	EPA 160.4	2	1	26	

Total Recoverable

Al	100	EPA 200.8	50	0.2	2000	
Sb	0.5	EPA 200.8	0.5	0.04	ND	J
As	1	EPA 200.8	1	0.06	2.5	
Be	0.5	EPA 200.8	0.5	0.05	0.049	J
Cd	0.25	EPA 200.8	0.2	0.02	0.053	J
Cr	0.5	EPA 200.8	0.5	0.03	3.3	
Cu	0.5	EPA 200.8	0.5	0.04	4.3	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2600	
Pb	0.5	EPA 200.8	0.5	0.02	1.7	
Hg	0.5	EPA 245.7	0.005	0.001	0.0045	J
Ni	1	EPA 200.8	1	0.04	3.9	
Se	1	EPA 200.8	2	0.14	0.17	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	11	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	120	
Sb	0.5	EPA 200.8	0.5	0.04	0.044	J
As	1	EPA 200.8	1	0.06	2.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.026	J
Cr	0.5	EPA 200.8	0.5	0.03	0.45	
Cu	0.5	EPA 200.8	0.5	0.04	2.1	
Fe	100	EPA 236.1	100	50	200	J
Pb	0.5	EPA 200.8	0.5	0.02	0.15	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0021	J
Ni	1	EPA 200.8	1	0.04	1.6	
Se	1	EPA 200.8	1	0.1	0.3	J
Ag	0.25	EPA 200.8	0.2	0.02	0.062	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	4.4	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	1700	
Fecal Coliform	200	SM9221 C, E	200	200	800	
E. coli	200	40 CFR 141.21 (f	200	200	800	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.037	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	ND	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	0.048	J
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.12	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 8: DUCK CREEK DRY WEATHER RECEIVING WATER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	78	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	ND	
Chloride	2	EPA 300.0	1	0.1	9.7	
COD	20-900	EPA 410.1	10	0.22	25	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	182	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	ND	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	0.83	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.17	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.28	
TDS	2	EPA 160.1	2	1	150	
TKN	0.1	EPA 351.3	0.1	0.018	0.33	
TOC	1	EPA 415.1	1	0.072	3.9	
Total Hardness	2	EPA 130.2	2	1	77.2	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	26	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	32	
TVS	NA	EPA 160.4	2	1	46	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	1500	
Sb	0.5	EPA 200.8	0.5	0.04	0.14	J
As	1	EPA 200.8	1	0.06	2.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.024	J
Cr	0.5	EPA 200.8	0.5	0.03	3.2	
Cu	0.5	EPA 200.8	0.5	0.04	3.4	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2200	
Pb	0.5	EPA 200.8	0.5	0.02	1.2	
Hg	0.5	EPA 245.7	0.005	0.001	0.005	
Ni	1	EPA 200.8	1	0.04	3	
Se	1	EPA 200.8	2	0.14	ND	
Ag	0.25	EPA 200.8	0.2	0.02	0.07	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	14	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	190	
Sb	0.5	EPA 200.8	0.5	0.04	ND	
As	1	EPA 200.8	1	0.06	2.7	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.023	J
Cr	0.5	EPA 200.8	0.5	0.03	0.52	
Cu	0.5	EPA 200.8	0.5	0.04	1.9	
Fe	100	EPA 236.1	100	50	290	
Pb	0.5	EPA 200.8	0.5	0.02	0.9	
Hg	0.5	EPA 245.7	0.005	0.001	0.0043	J
Ni	1	EPA 200.8	1	0.04	1.8	
Se	1	EPA 200.8	1	0.1	0.36	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	8.7	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	5000	
Fecal Coliform	200	SM9221 C, E	200	200	400	
E. coli	200	40 CFR 141.21 (f	200	200	400	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.046	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	ND	
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.26	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 9: SMITH CANAL RECEIVING WATER SAMPLES APRIL 12, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	64	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	0.111	
BOD	2	EPA 405.1	2	0.5	11	
Chloride	2	EPA 300.0	1	0.1	56	
COD	20-900	EPA 410.1	10	0.22	130	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	385	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.066	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	ND	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.007	J
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.36	
TDS	2	EPA 160.1	2	1	158	
TKN	0.1	EPA 351.3	0.1	0.018	1.9	
TOC	1	EPA 415.1	1	0.072	15	
Total Hardness	2	EPA 130.2	2	1	244	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	48	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	41	
TVS	2	EPA 160.4	2	1	66	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	760	
Sb	0.5	EPA 200.8	0.5	0.04	0.52	
As	1	EPA 200.8	1	0.06	2.4	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.33	
Cr	0.5	EPA 200.8	0.5	0.03	3	
Cu	0.5	EPA 200.8	0.5	0.04	11	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	2000	
Pb	0.5	EPA 200.8	0.5	0.02	12	
Hg	0.5	EPA 245.7	0.005	0.001	0.008	
Ni	1	EPA 200.8	1	0.04	4.6	
Se	1	EPA 200.8	2	0.14	1	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	62	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes

Dissolved Metals

Al	100	EPA 200.8	50	0.2	3.3	J
Sb	0.5	EPA 200.8	0.5	0.04	0.56	
As	1	EPA 200.8	1	0.06	2.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.094	J
Cr	0.5	EPA 200.8	0.5	0.03	0.87	
Cu	0.5	EPA 200.8	0.5	0.04	5.4	
Fe	100	EPA 236.1	100	50	75	
Pb	0.5	EPA 200.8	0.5	0.02	0.19	J
Hg	0.5	EPA 245.7	0.005	0.001	0.005	
Ni	1	EPA 200.8	1	0.04	2.6	
Se	1	EPA 200.8	1	0.1	0.92	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	28	

Bacterial

Total Coliform	NA	SM 9221B	200	200	220000	
Fecal Coliform	200	SM9221 C, E	200	200	110000	
E. coli	200	40 CFR 141.21 (f	200	200	70000	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.079	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	0.091	J
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.3	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	0.032	J
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	0.071	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.0095	J
4,4'-DDE	0.05	0.01	0.0059	0.012	
4,4'-DDT	0.01	0.01	0.0031	0.03	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	0.0015	J
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	1.3	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 9: SMITH CANAL DRY WEATHER RECEIVING WATER SAMPLES JUNE 4, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	99	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	9.7	
Chloride	2	EPA 300.0	1	0.1	68	
COD	20-900	EPA 410.1	10	0.22	67	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	472	
Fluoride	0.1	EPA 300.0	0.1	0.05	0.12	
MBAS	0.5	EPA 425.1	0.02	0.01	ND	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	ND	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	ND	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.049	
TDS	2	EPA 160.1	2	1	284	
TKN	0.1	EPA 351.3	0.1	0.018	1.9	
TOC	1	EPA 415.1	1	0.072	9.3	
Total Hardness	2	EPA 130.2	2	1	128	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	40	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	32	
TVS	NA	EPA 160.4	2	1	64	

Total Recoverable

Al	100	EPA 200.8	50	0.2	370	
Sb	0.5	EPA 200.8	0.5	0.04	0.3	J
As	1	EPA 200.8	1	0.06	3.3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	ND	
Cr	0.5	EPA 200.8	0.5	0.03	1	
Cu	0.5	EPA 200.8	0.5	0.04	2.9	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	600	
Pb	0.5	EPA 200.8	0.5	0.02	2.1	
Hg	0.5	EPA 245.7	0.005	0.001	0.0041	J
Ni	1	EPA 200.8	1	0.04	2.7	
Se	1	EPA 200.8	2	0.14	0.76	J
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	8.9	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	52	
Sb	0.5	EPA 200.8	0.5	0.04	0.34	J
As	1	EPA 200.8	1	0.06	3	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.033	J
Cr	0.5	EPA 200.8	0.5	0.03	0.75	
Cu	0.5	EPA 200.8	0.5	0.04	2.2	
Fe	100	EPA 236.1	100	50	140	J
Pb	0.5	EPA 200.8	0.5	0.02	1.3	
Hg	0.5	EPA 245.7	0.005	0.001	0.0031	J
Ni	1	EPA 200.8	1	0.04	1.7	
Se	1	EPA 200.8	1	0.1	0.99	J
Ag	0.25	EPA 200.8	0.2	0.02	0.02	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	6.6	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	700	
Fecal Coliform	200	SM9221 C, E	200	200	200	
E. coli	200	40 CFR 141.21 (f	200	200	200	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	0.037	J
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.1	
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	ND	
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	0.073	J
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.0058	J
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.27	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

TABLE 9: SMITH CANAL DRY WEATHER RECEIVING WATER SAMPLES JUNE 25, 2003

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Oil and Grease	5	EPA 1664	5	2.5	ND	
Total Petroleum Hydrocarbon	5	EPA 1664	5	2.5	ND	
Alkalinity	2	EPA 310.1	2	0.05	110	
Ammonia-N	0.1	EPA 350.2	0.1	0.1	ND	
BOD	2	EPA 405.1	2	0.5	5.7	
Chloride	2	EPA 300.0	1	0.1	64	
COD	20-900	EPA 410.1	10	0.22	74	
Cyanide	0.005	EPA 335.2	0.005	0.005	ND	
EC	1 umho/cm	EPA 120.1	1	0.22	595	
Fluoride	0.1	EPA 300.0	0.1	0.05	ND	
MBAS	0.5	EPA 425.1	0.02	0.01	0.023	
NO3 + NO2-N	0.1	EPA 300.0	0.1	0.0077	ND	
Phosphorus, diss	0.05	EPA 365.2	0.01	0.00096	0.17	
Phosphorus, total	0.05	EPA 365.2	0.01	0.002	0.25	
TDS	2	EPA 160.1	2	1	ND	
TKN	0.1	EPA 351.3	0.1	0.018	1.6	
TOC	1	EPA 415.1	1	0.072	7	
Total Hardness	2	EPA 130.2	2	1	146	
Total Phenols	0.1	EPA 420.1	0.1	0.05	ND	
TSS	2	EPA 160.2	2	1	20	
Turbidity	0.1 NTU	EPA 180.1	0.1	0.05	23	
TVS	NA	EPA 160.4	2	1	90	
Total Recoverable						
Al	100	EPA 200.8	50	0.2	540	
Sb	0.5	EPA 200.8	0.5	0.04	1	
As	1	EPA 200.8	1	0.06	3.2	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.084	J
Cr	0.5	EPA 200.8	0.5	0.03	2	
Cu	0.5	EPA 200.8	0.5	0.04	2.5	
Cr VI	5	SM3500D	10	10	ND	
Fe	100	EPA 236.1	100	50	1100	
Pb	0.5	EPA 200.8	0.5	0.02	2.9	
Hg	0.5	EPA 245.7	0.005	0.001	0.0031	J
Ni	1	EPA 200.8	1	0.04	2.4	
Se	1	EPA 200.8	2	0.14	0.42	J
Ag	0.25	EPA 200.8	0.2	0.02	0.11	J
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.08	11	

Analytes	Permit ML	Mtd	Lab ML	Lab MDL	Results	Notes
Dissolved Metals						
Al	100	EPA 200.8	50	0.2	9.7	J
Sb	0.5	EPA 200.8	0.5	0.04	0.37	J
As	1	EPA 200.8	1	0.06	3.6	
Be	0.5	EPA 200.8	0.5	0.05	ND	
Cd	0.25	EPA 200.8	0.2	0.02	0.035	J
Cr	0.5	EPA 200.8	0.5	0.03	0.088	J
Cu	0.5	EPA 200.8	0.5	0.04	0.89	
Fe	100	EPA 236.1	100	50	ND	
Pb	0.5	EPA 200.8	0.5	0.02	0.071	J
Hg	0.5	EPA 245.7	0.005	0.001	0.0036	J
Ni	1	EPA 200.8	1	0.04	1.3	
Se	1	EPA 200.8	1	0.1	1.2	
Ag	0.25	EPA 200.8	0.2	0.02	ND	
Tl	1	EPA 200.8	1	0.05	ND	
Zn	1	EPA 200.8	1	0.06	1.1	
Bacterial						
Total Coliform	NA	SM 9221B	200	200	400	
Fecal Coliform	200	SM9221 C, E	200	200	400	
E. coli	200	40 CFR 141.21 (f	200	200	<200	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 625 / 8270C					
2-Chlorophenol	2	0.2	0.03	ND	
2,4-Dichlorophenol	1	0.1	0.03	ND	
2,4-Dimethylphenol	2	1	0.04	ND	
2,4-Dinitrophenol	5	0.5	0.16	ND	
2-Nitrophenol	10	0.2	0.02	ND	
4-Nitrophenol	5	0.5	0.02	ND	
4-Chloro-3-methylphenol	1	0.1	0.03	ND	
Pentachlorophenol	2	0.5	0.14	ND	
Phenol	1	0.3	0.3	ND	
2,4,6-Trichlorophenol	10	0.1	0.02	ND	
Acenaphthene	1	0.1	0.03	ND	
Acenaphthylene	2	0.1	0.04	ND	
Anthracene	2	0.1	0.02	ND	
Benzidine	5	1	NE	ND	
1,2-Benzanthracene	5	0.2	0.07	ND	
Benzo(a)pyrene	2	0.2	0.05	ND	
Benzo(g,h,I)perylene	5	0.2	0.07	ND	
3,4-Benzoflouranthene	10	0.1	0.03	ND	
Benzo(k)flouranthene	2	0.1	0.07	ND	
Bis(2-Chloroethoxy) methane	5	1	0.07	ND	
Bis(2-Chloroisopropyl) ether	2	0.2	0.03	ND	
Bis(2-Chloroethyl) ether	1	1	0.12	ND	
Bis(2-Ethylhexl) phthalate	5	2	2	ND	
4-Bromophenyl phenyl ether	5	0.1	0.04	ND	

Butyl benzyl phthalate	10	0.1	0.04	0.048	J
2-Chloronaphthalene	10	0.1	0.02	ND	
4-Chlorophenyl phenyl ether	5	0.1	0.04	ND	
Chrysene	5	0.1	0.02	ND	
Dibenzo(a,h)anthracene	0.1	0.1	0.07	ND	
1,3-Dichlorobenzene	1	0.1	0.02	ND	
1,4-Dichlorobenzene	1	0.1	0.02	ND	
1,2-Dichlorobenzene	1	0.1	0.02	ND	
3,3-Dichlorobenzidine	5	0.2	0.2	ND	
Diethyl phthalate	2	0.3	0.25	ND	
Dimethyl phthalate	2	0.1	0.03	ND	
di-n-Butyl phthalate	10	0.4	0.4	ND	
2,4-Dinitrotoluene	5	0.1	0.04	ND	
2,6-Dinitrotoluene	5	0.1	0.06	ND	
4,6 Dinitro-2-methylphenol	5	0.5	0.06	ND	
1,2-Diphenylhydrazine	1	0.2	0.13	ND	
di-n-Octyl phthalate	10	0.2	0.1	ND	
Fluoranthene	0.05	0.05	0.03	0.04	J
Fluorene	0.1	0.1	0.03	ND	
Hexachlorobenzene	1	0.1	0.04	ND	
Hexachlorobutadiene	1	0.2	0.01	ND	
Hexachloro-cyclopentadiene	5	0.2	0.01	ND	
Hexachloroethane	1	0.2	0.01	ND	
Indeno(1,2,3-cd)pyrene	0.05	0.05	0.05	ND	
Isophorone	1	0.5	0.07	ND	
Naphthalene	0.2	0.1	0.02	ND	
Nitrobenzene	1	0.5	0.04	ND	
N-Nitroso-dimethyl amine	5	1	NE	ND	
N-Nitroso-diphenyl amine	1	0.2	0.05	ND	
N-Nitroso-di-n-propyl amine	5	1	0.03	ND	
Phenanthrene	0.05	0.05	0.02	ND	
Pyrene	0.05	0.05	0.04	ND	
1,2,4-Trichlorobenzene	1	0.1	0.01	ND	

Analytes	Permit ML	Lab ML	Lab MDL	Result	Notes
EPA 547: Glyphosate	5	5	5	ND	
EPA 608 / 8081					
Aldrin	0.005	0.005	0.0017	ND	
Alpha-BHC	0.01	0.01	0.0071	ND	
Beta-BHC	0.005	0.005	0.005	ND	
Delta-BHC	0.005	0.005	0.0016	ND	
Gamma-BHC (Lindane)	0.02	0.01	0.0031	ND	
Alpha-chlordane	0.1	0.01	0.0032	ND	
Gamma-chlordane	0.1	0.01	0.002	ND	
4,4'-DDD	0.05	0.01	0.0021	0.0099	J
4,4'-DDE	0.05	0.01	0.0059	ND	
4,4'-DDT	0.01	0.01	0.0031	ND	
Dieldrin	0.01	0.01	0.0012	ND	
alpha-Endosulfan	0.02	0.01	0.0008	ND	
beta-Endosulfan	0.01	0.01	0.0018	ND	
Endosulfan sulfate	0.05	0.01	0.003	ND	

Endrin	0.01	0.01	0.0012	ND	
Endrin aldehyde	0.01	0.01	0.0031	ND	
Heptachlor	0.01	0.01	0.0098	ND	
Heptachlor Epoxide	0.01	0.01	0.001	ND	
Toxaphene	0.5	0.2	0.093	ND	
EPA 8082					
Aroclor-1016	0.5	0.2	0.077	ND	
Aroclor-1221	0.5	0.2	0.13	ND	
Aroclor-1232	0.5	0.2	0.087	ND	
Aroclor-1242	0.5	0.2	0.075	ND	
Aroclor-1248	0.5	0.2	0.054	ND	
Aroclor-1254	0.5	0.2	0.024	ND	
Aroclor-1260	0.5	0.2	0.17	ND	
EPA 8141A					
Chlorpyrifos	0.01	0.05	0.027	ND	
Diazinon	0.05	0.05	0.012	ND	
Prometryn	2	2	NE	ND	
Atrazine	2	2	NE	ND	
Simazine	2	2	NE	ND	
Cyanazine	2	2	NE	ND	
Malathion	1		0.083	ND	
EPA 8151A					
2,4-D	0.02	0.02	0.007	0.28	
2,4,5-TP-SILVEX	0.2	0.2	0.01	ND	
EPA 8260					
2-Chloroethyl vinyl ether	1	0.5	0.5	ND	
Methyl tertiarybutyl ether (MTBE)	1	1	1	ND	

CHAPTER 4 – FINANCIAL STATUS & WORKPLAN

The Storm Water Management Program is managed by a staff of four full time equivalent employees. The positions are as follows:

Program Manager (1)
Industrial Inspector (1)
Outreach Coordinator (1)
Construction Inspector (1/2)
Clerical (1/2)

In addition, support is provided by other divisions of the Municipal Utilities Department (Operations & Maintenance, Engineering, etc.). These additional resources allow the Program to continue to execute all of the work elements listed in the permit.

From a budgetary standpoint, the Program is fully funded. The funding provided through the City's storm water fee of $2.10/month per Equivalent Residential Unit has allowed all of the Program elements to be implemented. For the past four fiscal years the Storm Water Program Budget was:

- 1999/2000 $884,568
- 2000/2001 $980,644
- 2001/2002 $1,009,664
- 2002/2003 $1,560,858

The fiscal year 2002/2003 budget was broken down as follows:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	BUDGET
441-4411-572.10-10	Salaries & Benefits	539,441

EMPLOYEE SERVICES

441-4411-572.20-15	Telephone	1,470
441-4411-572.20-20	Advertising	0
441-4411-572.20-24	Prof/Spec Svcs-Consultant	0
441-4411-572.20-25	Maint. & Repair Services	6,792
441-4411-572.20-26	Outside Printing Costs	0
441-4411-572.20-27	Uniform/Laundry Services	1,828
441-4411-572.20-30	Other Fees	0
441-4411-572.20-33	Media-Storage/Conversion	0
441-4411-572.20-34	Duplication/Copy Costs	350
441-4411-572.20-35	Risk Exposure Ins. Premium	0
441-4411-572.20-37	Insurance Premiums	12,222
441-4411-572.20-41	Automotive Equip Rental	4,948

441-4411-572.20-43	Computer Equipment Rental	12,763
441-4411-572.20-46	Pool Vehicle Rental	3,533
441-4411-572.20-47	Telephone Rental	5,592
441-4411-572.20-51	Community Program	20,000
441-4411-572.20-52	Publicity & Advertising	13,350
441-4411-572.20-53	Printing & Mapping	2,350
441-4411-572.20-54	Postage/Mailing Services	1,500
441-4411-572.20-57	Processing Fees	10,000
441-4411-572.20-58	Legal Services	0
441-4411-572.20-60	Computer/Programming Svcs	0
441-4411-572.20-61	Engineering Services	0
441-4411-572.20-63	Testing & Analysis Services	0
441-4411-572.20-65	Prof & Special Services	449,577
441-4411-572.20-66	Other Services	600
441-4411-572.20-68	Laboratory Services	200,928

OTHER SERVICES

441-4411-572.30-50	Materials and Supplies	7,000
441-4411-572.30-51	Computer Software	0
441-4411-572.30-52	Subscription-Periodical	0
441-4411-572.30-55	Library Materials	700

MATERIALS AND SUPPLIES

441-4411-572.40-10	Training	1,995
441-4411-572.40-12	Meetings & Travel	4,665
441-4411-572.40-14	Memberships	1,590
441-4411-572.40-15	Car Mileage Reimbursement	2,317
441-4411-572.40-25	Indirect Cost Allocation	255,347
441-4411-572.40-45	Debt Service Principal	0
441-4411-572.40-46	Interest Expense	0
441-4411-572.40-61	Miscellaneous Expense	0

Total: $1,560,858

It should be noted that these budget numbers do not encompass the total funding provided in the City's budget for storm water. For instance, street sweeping the street sweeping budget for FY2002/03 was $825,053. However, since this work was performed by the Public Works Department it is not noted above in the detailed storm water budget. Also, this budget does not reflect the $305,000 per year that City residents pay to fund the County's Household Hazardous Waste Program through a separate assessment.

APPENDIX A

TABLE 1 - Stormwater outfall listing for Stockton Urban Area (8-03)

Outfall Name	I.D. Number	Drainage Area (acres)	Responsible Party
BROOKSIDE ESTATES (NORTH) P.S.	14-34	901.84	City of Stockton
FORT DONELSON & 14 MILE SLOUGH P.S.	14-35	811.56	City of Stockton
I-5 & 14 MILE SLOUGH P.S.	14-36	39.98	City of Stockton
ALEXANDRIA & 14 MILE SLOUGH P.S.	14-37	729.12	City of Stockton
BLACK OAK & 14 MILE SLOUGH P.S.	14-38	598.79	City of Stockton
5 MILE CREEK 118	5M-118	1.06	City of Stockton
5 MILE CREEK 119	5M-119	9.25	City of Stockton
5 MILE CREEK 129	5M-129	22.96	City of Stockton
5 MILE CREEK 134	5M-134	13.73	City of Stockton
5 MILE CREEK 135	5M-135	3.00	City of Stockton
5 MILE CREEK 164	5M-164	11.01	City of Stockton
LIGHTHOUSE & 5 MILE CREEK P.S.	5M-25	185.33	City of Stockton
PLYMOUTH 7 5 MILE CREEK P.S.	5M-26	186.18	City of Stockton
SWENSON & 5 MILE CREEK P.S.	5M-27	670.83	City of Stockton
ALEXANDRIA & 5 MILE CREEK P.S.	5M-28	147.42	City of Stockton
PACIFIC & FIVE MILE CREEK P.S.	5M-30	228.80	City of Stockton
ARCH-AIRPORT DRAIN 169	AA-169	6.81	City of Stockton
ARCH-AIRPORT DRAIN 170	AA-170	25.72	City of Stockton
I-5 & BEAR CREEK P.S.	BC-03	470.11	City of Stockton
THORNTON & BEAR CREEK P.S.	BC-04	246.22	City of Stockton
BROOKSIDE ESTATES (SOUTH) P.S.	CR-39	296.97	City of Stockton
BROOKSIDE & 1-5 P.S.	CR-40	408.34	City of Stockton
BROOKSIDE & CALAVERAS RIVER P.S.	CR-41	310.07	City of Stockton
BIANCHI & CALAVERAS RIVER P.S.	CR-42	843.65	City of Stockton
WEST LANE & CALAVERAS (NORTH) P.S.	CR-43	437.09	City of Stockton
SUTTER & CALAVERAS RIVER P.S.	CR-45	357.33	City of Stockton
WEST LANE & CALAVERAS (SOUTH) P.S.	CR-46	170.52	City of Stockton
HOLMAN & CALAVERAS RIVER P.S.	CR-48	549.88	City of Stockton
DUCK CREEK 165	DC-165	419.37	City of Stockton
DUCK CREEK 167	DC-167	413.99	City of Stockton
WESTERN PACIFIC INDUSTRIAL PARK P.S.	DC-65	597.67	City of Stockton
AIRPORT & DUCK CREEK P.S.	DC-66	324.64	City of Stockton
CLAYTON & HARVEY P.S.	DC-67	67.14	City of Stockton
STAGECAOCH & DUCK CREEK P.S.	DC-76	258.50	City of Stockton
SANGUINETTI & CALAVERAS RIVER P.S.	DV-50	218.03	City of Stockton
DEEP WATER CHANNEL 101	DW-101	0.25	City of Stockton
DEEP WATER CHANNEL 108	DW-108	3.02	City of Stockton
DEEP WATER CHANNEL 111	DW-111	6.63	City of Stockton
DEEP WATER CHANNEL 112	DW-112	73.54	City of Stockton
DEEP WATER CHANNEL 113	DW-113	17.49	City of Stockton
DEEP WATER CHANNEL 114	DW-114	0.26	City of Stockton
DEEP WATER CHANNEL 115	DW-115	86.42	City of Stockton
DEEP WATER CHANNEL 116	DW-116	17.70	City of Stockton
DEEP WATER CHANNEL 117	DW-117	7.01	City of Stockton
DEEP WATER CHANNEL 120	DW-120	119.95	City of Stockton
DEEP WATER CHANNEL 121	DW-121	57.52	City of Stockton
DEEP WATER CHANNEL 122	DW-122	2.34	City of Stockton
DEEP WATER CHANNEL 123	DW-123	1,119.73	City of Stockton

DEEP WATER CHANNEL 126	DW-126	0.07	City of Stockton
DEEP WATER CHANNEL 127	DW-127	51.08	City of Stockton
DEEP WATER CHANNEL 128	DW-128	4.42	City of Stockton
DEEP WATER CHANNEL 130	DW-130	1.68	City of Stockton
DEEP WATER CHANNEL 131	DW-131	14.74	City of Stockton
DEEP WATER CHANNEL 133	DW-133	0.19	City of Stockton
DEEP WATER CHANNEL 138	DW-138	33.52	City of Stockton
DEEP WATER CHANNEL 139	DW-139	10.61	City of Stockton
DEEP WATER CHANNEL 156	DW-156	12.85	City of Stockton
DEEP WATER CHANNEL 163	DW-163	0.24	City of Stockton
GRUPE BUSINESS PARK P.S.	FC-72	129.66	City of Stockton
AIRPORT GATEWAY P.S.	FC-73	492.91	City of Stockton
LITTLE BEAR CREEK 106	LB-106	4.50	City of Stockton
LITTLE BEAR CREEK 107	LB-107	16.99	City of Stockton
LITTLE BEAR CREEK 109	LB-109	15.77	City of Stockton
ROYAL OAKS & LITTLE BEAR CREEK P.S.	LB-11	479.48	City of Stockton
LITTLE BEAR CREEK 110	LB-110	21.15	City of Stockton
LOWER SACRAMENTO & LITTLE BEAR CREEK P.S.	LB-12	45.30	City of Stockton
LITTLE BEAR CREEK 124	LB-124	0.14	City of Stockton
LITTLE BEAR CREEK 127	LB-127	0.15	City of Stockton
LITTLE BEAR CREEK 129	LB-129	1.11	City of Stockton
LITTLE JOHN CREEK 173	LJ-173	6.04	City of Stockton
STOCKTON AIRPORT BUSINESS CENTER P.S.	LJ-80	854.49	City of Stockton
ARCH ROAD INDUSTRIAL PARK P.S.	LJ-81	218.83	City of Stockton
MORMON SLOUGH 140	MM-140	31.25	City of Stockton
MORMON SLOUGH 141	MM-141	72.80	City of Stockton
MORMON SLOUGH 142	MM-142	431.33	City of Stockton
MORMON SLOUGH 143	MM-143	19.55	City of Stockton
MORMON SLOUGH 144	MM-144	21.43	City of Stockton
MORMON SLOUGH 145	MM-145	19.61	City of Stockton
MORMON SLOUGH 147	MM-147	142.45	City of Stockton
MORMON SLOUGH 148	MM-148	7.42	City of Stockton
MORMON SLOUGH 149	MM-149	6.28	City of Stockton
MORMON SLOUGH 150	MM-150	955.46	City of Stockton
MORMON SLOUGH 151	MM-151	118.12	City of Stockton
MORMON SLOUGH 152	MM-152	15.14	City of Stockton
MORMON SLOUGH 153	MM-153	77.32	City of Stockton
MORMON SLOUGH 154	MM-154	298.15	City of Stockton
MORMON SLOUGH 155	MM-155	279.56	City of Stockton
MORMON SLOUGH 157	MM-157	143.57	City of Stockton
MORMON SLOUGH 158	MM-158	32.69	City of Stockton
MORMON SLOUGH 159	MM-159	351.29	City of Stockton
MORMON SLOUGH 162	MM-162	1.41	City of Stockton
TWIN CREEKS & MOSER SLOUGH P.S.	MS-13	102.19	City of Stockton
MOSER SLOUGH 136	MS-136	0.59	City of Stockton
MOSER SLOUGH 137	MS-137	0.73	City of Stockton
KELLY & MOSER SLOUGH P.S.	MS-14	530.34	City of Stockton
BAINBRIDGE & MOSER SLOUGH P.S.	MS-15	103.67	City of Stockton
YARMOUTH & MOSER SLOUGH P.S.	MS-16	179.91	City of Stockton
DON & MOSER SLOUGH P.S.	MS-17	389.48	City of Stockton
MOSER SLOUGH 172	MS-172	94.12	City of Stockton
THORNTON & MOSER SLOUGH P.S.	MS-18	147.49	City of Stockton

CAYUGA & MOSER SLOUGH P.S.	MS-19	739.25	City of Stockton
CHERBOURG & MOSER SLOUGH P.S.	MS-20	1,099.22	City of Stockton
EL DORADO & MOSER SLOUGH P.S.	MS-21	520.49	City of Stockton
LA MORADA & MOSHER SLOUGH P.S.	MS-22	760.74	City of Stockton
SPANOS WEST P.S.	PS-77	594.23	City of Stockton
SMITH CANAL 102	SC-102	5.61	City of Stockton
SMITH CANAL 103	SC-103	7.87	City of Stockton
SMITH CANAL 104	SC-104	16.99	City of Stockton
RYDE & SMITH CANAL P.S.	SC-55	196.90	City of Stockton
BUENA VISTA & SMITH CANAL P.S.	SC-56	488.49	City of Stockton
LEGION PARK & SMITH CANAL P.S.	SC-57	1,862.27	City of Stockton
SAN JOAQUIN RIVER 160	SJ-160	15.68	City of Stockton
SAN JOAQUIN RIVER 161	SJ-161	19.77	City of Stockton
SAN JOAQUIN RIVER 166	SJ-166	3.20	City of Stockton
SAN JOAQUIN RIVER 168	SJ-168	2.27	City of Stockton
HWY 4 & SAN JOAQUIN RIVER P.S.	SJ-60	354.09	City of Stockton
EIGHTH STREET & SAN JOAQUIN RIVER P.S.	SJ-61	487.57	City of Stockton
WESTON RANCH P.S.	SJ-62	1,710.31	City of Stockton
TURNPIKE & WALKER SLOUGH P.S.	WK-64	1,490.67	City of Stockton
WEBER SLOUGH 171	WS-171	30.36	City of Stockton
SUBTOTAL	**120**	**29,890.02**	**City of Stockton**
COUNTY	C-1	25.65	San Joaquin County
COUNTY	C-2	40.58	San Joaquin County
COUNTY	C-3	36.08	San Joaquin County
COUNTY	C-4	40.75	San Joaquin County
COUNTY	C-5	347.30	San Joaquin County
COUNTY	C-6	42.49	San Joaquin County
COUNTY	C-7	110.69	San Joaquin County
COUNTY	C-8	101.32	San Joaquin County
COUNTY	C-9	229.20	San Joaquin County
COUNTY	C-10	57.91	San Joaquin County
COUNTY	C-11	58.79	San Joaquin County
COUNTY	C-12	123.52	San Joaquin County
COUNTY	C-13	424.05	San Joaquin County
COUNTY	C-14	17.32	San Joaquin County
COUNTY	C-15	113.86	San Joaquin County
COUNTY	C-16	96.88	San Joaquin County
COUNTY	C-17	406.65	San Joaquin County
COUNTY	C-18	115.43	San Joaquin County
SUBTOTAL	**18**	**2,388.47**	**San Joaquin County**
PRIVATE	P-2	15.14	Private
PRIVATE	P-3	15.95	Private
PRIVATE	P-4	1.10	Private
PRIVATE	P-5	2.57	Private
PRIVATE	P-6	11.23	Private
PRIVATE	P-7	8.84	Private
PRIVATE	P-8	5.41	Private
PRIVATE	P-9	24.66	Private
PRIVATE	P-10	7.69	Private
PRIVATE	P-11	6.34	Private
PRIVATE	P-12	5.98	Private
SUBTOTAL	**11**	**104.91**	**Private**

STATE	S-1	21.25	State
STATE	S-2	13.22	State
STATE	S-3	1.24	State
STATE	S-4	1.36	State
STATE	S-5	1.31	State
STATE	S-6	0.42	State
STATE	S-7	1.35	State
STATE	S-8	17.89	State
STATE	S-9	7.50	State
SUBTOTAL	**9**	**65.54**	**State**
TOTAL	**158**	**32,448.94**	**4**

APPENDIX B

CITY OF S. OCKTON
TOTAL CHEMICALS APPLIED
JUNE 2002 - JUNE 2003

PARKS															
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL
Round-up Pro Monsanto										0.35					**0.35**
"G" Ronstar														0.00	
Reward Zeneca								3.53	1.80	0.67	0.11				**6.11**
No Foama Creataive Marketiing								2.50	1.18	0.45	0.07				**4.20**
Quick Pro Monsanto										0.35					**0.35**

PUBLIC WORKS															
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL
Round-Up Pro Monsanto		0.13				0.38			0.14	0.13		0.01			**0.79**

8/29/03

CITY OF STOCKTON
TOTAL CHEMI .LS APPLIED
JUNE 2002 - JUNE 2003

	GOLF COURSES														
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL GALLONS
Chipco 26 GT Rhone-Poulenc	10.00		9.75				7.50	7.50		1.88			2.50		39.13
Mecomec Gordons	10.00									20.00		40.50			70.50
Trimec Broadleaf Gordons	2.14		0.41	0.90	0.01	0.33	0.01	0.31	1.17	3.84	4.00	1.70			14.82
Round-up Pro Monsanto	2.14	8.18	3.11	2.34	3.07	0.98	0.16	1.98	3.98	0.75	3.16	0.97	2.47		33.29
Bensumec 4 LF Gordons	13.00								13.00			15.50			41.50
Daconil Zeneca	15.00	7.50	5.00	2.50	6.80		2.50	5.14		7.50	1.88	10.00			63.82
Tupersan Gordons	5.00		9.00	16.00							1.00			31.00	
Betasan 4E Co.	2.81								3.75						6.56
Weedhoe 108 Vineland Chem.	0.19			1.50	1.28										2.97
Heritage Zeneca	3.00										2.00			5.00	
Fluid Fungicide Scotts		1.00					1.00								2.00
Turflon Ester Dow Elanco					0.04	0.06		0.02	0.03	2.81	0.31	5.50			8.77
Fore															

8/29/03

CITY OF STOCKTON
TOTAL CHEMICALS APPLIED
JUNE 2002 - JUNE 2003

	GOLF COURSES														
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL GALLONS
Poest Scotts Co.		0.01			0.01										0.02
Dursban Pro Agrosciences	13.50												3.76		17.26
Surflan Dow Elanco															0.00
Trimec Turf Gordons															0.00
Rodeo Monsanto		3.34	0.36	0.16	0.31		0.23	2.25	2.50	1.14					10.29
Primo Novaris		2.00		2.00						1.34				5.34	
Daconil Isk Biosciences															0.00
Compass Novartis	2.25						0.31	2.50			2.25				7.31
Banner Max Novartis															0.00
Weed N Feed Tri Delta Fert. Inc.														0.00	
Fungo Flo Scotts			2.50	2.50			1.38		3.50		2.50		0.94		13.32
Eagle WSP Rohm/Haas														0.00	
Reward															

8/29/03

CITY OF STOCKTON
TOTAL CHEM. ALS APPLIED
JUNE 2002 - JUNE 2003

	GOLF COURSES														
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL GALLONS
Zeneca								0.50	1.75						2.25

8/29/03

CITY OF STOCKTON
TOTAL CHEMICALS APPLIED
JUNE 2002 - JUNE 2003

	GOLF COURSES														
PRODUCT	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL POUNDS	TOTAL GALLONS
Rohm & Haas					60.00				15.00						75.00

APPENDIX C

EXECUTIVE SUMMARY

Dry Weather Field Screening

Ordinance number 013-95 c.s. requires the City of Stockton to implement a series of Best Management Practices (BMP's) for the prevention of storm water pollution in accordance with the U.S. Environmental Protection Agency's National Pollution Discharge Elimination System. One component of the pollution prevention program is ongoing field screening as a BMP. The City must perform annual dry weather field screening, whereby 20 percent of the stormwater outfalls are analyzed for potential illicit discharges. Table 1.1 indicates the basins analyzed during the 2002 dry season. Of the twenty-seven (27) watersheds, 7 are residential watersheds, 10 are commercial, 5 are recreational (parks), 3 are agricultural, 1 is industrial , and 1 is a commercial/ residential mix.

Table 1.1 2002 Sampling Basins

Basin Identification	Location
5M-118	5 Mile Creek at Pershing Ave.
5M-134	5 Mile Creek at Caran Ave.
5M-164	5 Mile Creek near Leesburg
AA-169	Arch Airport Road east of Airport Rd.
AA-170	Arch Airport Road at Airport Rd.
DC-167	Duck Creek near Bieghle Alley.
DW-101	Deep Water Channel near Commerce St.
DW-114	Deep Water Channel north of Weber St. and 50 ft west of Center St.
DW-121	Deep Water Channel at McLeod Park.
DW-123	Deep Water Channel at Weber Point.
DW-129	Deep Water Channel at Weber and Center Sts.
DW-133	Deep Water Channel near Weber Park.
DW-138	Deep Water Channel at Fremont St.
DW-139	Deep Water Channel near East Lindsay St.
DW-156	Deep Water Channel near Edison St.
DW-163	Deep Water Channel 100 ft west of DW-114.
LB-106	Little Bear Creek near Hacienda Ct.
LB-107	Little Bear Creek at Thornton Rd.
LB-109	Little Bear Creek 30 ft. west of Davis Rd.
LB-124	Little Bear Creek at Davis Rd.
LB-127	Little Bear Creek northeast of Davis Rd.
LB-129	Little Bear Creek south east of Davis Rd.
LJ-173	Little John Creek at Hwy 99 West Frontage Rd.
MM-143	Mormon Slough near Lincoln and Washington Sts.
MM-158	Mormon Slough at Commerce St.
MM-162	Mormon Slough on Lincoln St. near Sonora St.
WS-171	Weber Slough at Hwy 99 East Frontage Rd.

Numeric values were assigned to each of the sampling constituents to identify potential illicit discharges. The pH range is determined by the State Water Quality Standards for the receiving waters, and is set at >5.5 and <8.5 pH units. Surfactant concentrations over the equipment detection limit were investigated as illicit discharges. Copper and Phenol levels were set at the U.S. EPA Multi-Sector Permit Benchmark Values of 0.0636 mg/l and 1.0 mg/l respectively. Chlorine has consistently appeared in residential irrigation waters during dry weather sampling. Chlorine had two values set. If irrigation runoff was conspicuous in the watershed, Chlorine levels of 0.3 mg/l were allowed. If no irrigation was noted in the watershed, Chlorine levels could not exceed 0.1 mg/l.

Field analyses indicated basin DW-123 had elevated pH and chlorine levels. Follow up sampling indicated an alga bloom caused the elevated pH sampled and interfered with the chlorine test kit. Samples filtered to remove the algae and interfering chemicals showed water quality to be acceptable. All other watersheds had acceptable levels of chlorine and pH's within water quality standards.

Samples taken at MM-158 were so high in organic material the sample water was black. Further investigation revealed a nearby planing mill was discharging sawdust to the storm system. The planing mill was required to submit a revised SWPPP and implement further BMP's to control the sawdust.

Sampling for MBAS, phenols, and copper found no sites exceeding levels of concern at any stations.

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APPENDIX D

Level:	Company:	Last Site Visit	Comments:
2	Fercho, Gary Trucking		
2	San Joaquin Lumber		
2	Greyhound Bus Lines		
2	Five Star Consolidation Service, Inc.		
2	Advanced Metal Products		New industry as of June 2002.
2	Honolulu Freight Service, Inc.		
2	Heinz, HJ Co., USA		
2	Juencke, Fred J. Trucking		
2	Marquardt Trans., Inc.		
2	Marine Services		
2	Marine Services		
2	London Produce, Inc.	3/26/03	Out of Business 3/26/03.
2	Lincoln Unified School District		Recommended inclusion into the program 4/
2	Viktron Lika Corp.	10/1/02	Out of Business 10/1/02
2	A&A Concrete Supply, Inc.		
2	Laidlaw Transit, Inc.		
2	Hubbard Milling Co.	5/19/03	Out of Business as of 5/19/03
2	JC Trucking		
2	Interstate Truck Leasing Corp.		
2	Interstate International, Inc.		
2	Condor Utility Products, Inc.		
2	Hunter Douglas, Inc.		
2	Custom Wood Craft		AKA R.L. Wells Custom Woodcraft
2	Hughes, Dwight P Co.		
2	Leatherback Industries, Inc.		
2	American Door Manufacturing		
2	D.O.N. Investments		
2	Bokides, Mel Petroleum Co.		
2	Fairgrounds Industrial Park	5/19/03	AKA Boggs Steel Fabricators. Out of Busin
2	Billingsly's Charter		
2	Bekins Moving & Storage		Recommneded inclusion into the program.
2	Barnes Trucking		
2	BTI Buster Transportation, Inc.		
2	American Medical Response, Inc.		
2	Bulk Transportation		
2	Cal Sheets LLC		
2	Diamond Pallet of California, Inc.	4/25/00	Relocated 12/99. Have sent for a new WDI
2	Central Door Company		Visited Site. Left Program information.
2	Airborne Express		
2	Carmel Steel	12/28/00	Recommended inclusion into the state progr
2	Pacific Steel Fabricators	12/13/00	Suggested they enter the State SW Progra
2	A-1 Ambulance Service		
2	American Moulding & Millwork Co., Inc.		
2	Colberg, Inc.		

Level:	Company:	Last Site Visit	Comments:
2	El Dorado Chemical Co., Inc.	5/19/03	Out of Business as of 5/19/03
2	DeVecchio Foundry		
2	Dependable Trucking		
2	Delta Container Corp.		
2	Del Monte Foods, USA		
2	D&V Machine Shop & Pump Co.		
2	Brooks Products, Inc.		
2	Concrete, Inc.		
2	Executive Limousines		
2	Recycled Fibers		
2	Coca-Cola Bottling Co.		
2	Clipper Exxpress		
2	Central Valley Fabricators		
2	Calosso, M & Son, Inc.		
2	California Cedar Products Co.	8/10/00	
2	New Star Pallet		Left information 6/28/00
2	Independent Trucking Co., Inc.	2/16/00	
2	Quikrete, Inc.		
2	Thorsen Trucking, Inc.		
2	Valley Pattern & Mfg., Inc.		
2	Sierra Chemical Co.	1/31/01	Changed to Level 2 based on site inspection
2	Union Planing Mill, Inc.		
2	Stockton Tri Industries, Inc.	12/8/00	
2	San Joaquin Transportation Service		AKA Caretrans
2	Sierra Lumber Manufacturers, Inc.		
2	Stockton Unified School District		
2	Production Chemical Mfg., Inc.		
2	Tony's Express, Inc.		
2	Valley Tomato Products, Inc.		AKA Joseph Campbell
2	Roadway Package System		AKA Fedex
2	Rotor Blades, Inc.	5/19/03	Out of Business as of 5/19/03
2	Stephen's Five Star Marina		Left program information 4/9/00
2	San Joaquin Co. Motor Pool Division		
2	Teichert Precast		
2	Burlington Northern Santa Fe Railroad		
2	Silvey, JP Trucking		
2	Pallet Man, The		Recommended they enter the SW program.
2	Angelica Textile Services		
2	Nelson-Ball Paper Products, Inc.		
2	U.S. Postal Service		
2	Del Rio West Pallets	1/5/00	Recommended inclusion into the State progr
2	Stockton Cogen Facility		AKA Air Products & Chemicals
2	Doorway Manufacturing		
2	Stockton Sanitary Wash Rack		

Level:	Company:	Last Site Visit:	Comments:
2	Stockton City Taxi Cab Co.		
2	Plastic Painting Solutions		
2	Stockton Ambulance Co., Inc.		
2	Stockton Fiberglass		
2	Advanced Industrial Coatings		AKA Ron Cymanski and David Arney
2	Yellow Cab Co.		
2	SMART		
2	Union Pacific Railroad Co., Inc.		
2	Williams Tank Lines		
2	Diamond Walnut	8/24/00	No discharge to the City system
3	Toys-R-Us, Inc.		Left program information with the manager o
3	California Mirror Door		
3	Tech Packaging, Inc.		
3	Carando Machine Works		
3	TechnoTrim, Inc.		
3	Ladd's Marina		
3	Idealease of Stockton, Inc.		
3	TaB Warehouse & Distribution		
3	Chemical Transfer Company, Inc.		
3	Keystone Automotive Ind., Inc.		
3	Premdor Corp.		
3	Angel's Marble		
3	Action Manufacturing, Inc.		
3	Stockton Poultry Market		
3	Contech-Velvacon Paints		AKA Contract Coatings
3	Corn Products Corp.	1/31/02	
3	Crown Fiberglass Corp.		
3	Challenger Enterprises		Left information on the SW program 4/9/00
3	Aranda's Tortilla Factory		
3	R.L. Righetti Enterprises	1/5/00	Recommended inclusion into the State progr
3	AAA Machine Shop		
3	Haldex Midland Corporation	1/14/00	Recommended inclusion into the program.
3	A G Signs Inc.		
3	McGill Airflow	1/6/00	Recommended inclusion into the program.
3	American Battery Co.		AKA Pacific Battery
3	Johnson's Boat & Storage	1/6/00	Recommended entering the program.
3	Woolley Custom Engine Rebuilding		
3	Williams, LR Co., Inc.		
3	American Sunny Foods, Inc.		
3	Andersen Rack Systems, Inc.		
3	Anderson Moulds, Inc.		
3	American Heavy Equipment Services	1/5/00	Recommended inclusion into the program.
3	Blue Line Distribution, Inc.		
3	Valley Plastics & Marble, Inc.		

Level:	Company:	Last Site Visit	Comments:
3	Union Ice		
3	Bono's Ornamental Iron Works, Inc.		Left Program information 4/10/00
3	Rapid Freightways		
3	QB Rebuilders, Inc.		Left information 6/28/00.
3	Summet Window and Patio Door		
3	Palacio's Ornamental Iron Works		Visited Site 4/21/00. Left program informati
3	Berberian Nut Co.		
3	PM Agricultural Products		
3	Valley Rubber & Gasket Co., Inc.		
3	B&R Automotive & Machine		
3	Aztlan Ornamental Iron Fabrication		Left program information 4/10/00
3	Atlas Machine Corp.		
3	California Spray Dry	1/5/00	No discharge to the City system.
3	U-Haul Co.		
3	United Facilities, Inc.		
3	Cliff's Marine Canvas		
3	Hahn Tractor Co., Inc.		
3	Islamic Meat & Poultry Co.		Recommended inclusion into the program
3	Iris USA Manufacturing, Inc.		
3	El Dorado Stone		New business as of 2002.
3	Premier Drywall Tool Co.		
3	Industrial Innovations, Inc.		
3	J&R Distribution Services, Inc.		
3	Rare Parts, Inc.		
3	Pre-Peeled Potato Co., Inc.		
3	Hormel Foods Corp.		
3	HKM Machine & Fabrication, Inc.		
3	San Joaquin County		
3	Dependable Highway Express		
3	Sardee Industries, Inc.		
3	Delta Cabinets & Millwork		
3	Prism Team of Stockton		
3	LFW Mfg. Co., Inc.		
3	National Broom Co. of CA, Inc.		
3	McClain & Son Sign & Crane		
3	Numeri Tech, Inc.		
3	Mark-Ease Products Co., Inc.		
3	OHI Co., Inc.		
3	Magic Ice Products		
3	J&B Pickle Distributors, Inc.		
3	PDM Steel Service Centers		AKA Stockton Culvert
3	Gillis Plating		
3	Pelton Shepherd Industries, Inc.		
3	Lazorlite Parts, Inc.		

Level:	Company:	Last Site Visit:	Comments:
3	Percival Machine & Supply		
3	Piper Pacific Agricultural Dist., Inc.		
3	Portside Machine Shop, Inc.		
3	Power Logistics		
3	Pat X-Ray Co., Inc.		
3	Delta Plating, Inc.		
3	Lucent Technologies		
3	Dietrich Industries, Inc.		
3	Stanton International		
3	A Teichert & Son, Inc.		
3	Denise Jefferson Enterprises		
3	Statco Engineering & Fabricators, Inc.		
3	Ductmate Industries, Inc.		
3	Delta Pump Co.		AKA Stockton Armature &Motor Works
3	E-Z Vent Sheet Metal Products, Inc.		
3	Milano, J Co., Inc.		
3	Delta Plastics		
3	I-Tre Corporation		
3	Debco Auto Wrecking, Inc.		Given Level 3 since their engineering report
3	Stockton Engine & Machine Shop		
3	Custom Warehousing, Inc.		
3	Dentoni's Welding Works, Inc.		
3	Englander-Tualatin Sleep Products		
3	Laidlaw Transit AMR		
3	Geiger Manufacturing, Inc.		
3	GATX Logistics		
3	GATX Logistics		
3	Froeliger Machine Tool Co.		
3	Fremont Cabinet Shop		
3	Dopaco California, Inc.		
3	Skibo's Machine Works		Visited site 4/18/00. Left program informatio
3	Custom Food Machinery, Inc.		
3	Sonoco Products Co., Inc.		
3	Stanley Adams Machine Co., Inc.		
3	Earth Grains		
3	Engine Red Glass Walls		
3	Woolsey Oil Inc.		
3	Abel Building Materials		
3	Sierra Pacific Distribution Services		