

# **Overview of Environmental and Hydrogeologic Conditions at Merrill Field Airport, Anchorage, Alaska**

By Allan S. Nakanishi

---

U.S. GEOLOGICAL SURVEY

Open-File Report 95-171

Prepared in cooperation with the  
FEDERAL AVIATION ADMINISTRATION



Anchorage, Alaska  
1995

**U.S. DEPARTMENT OF THE INTERIOR  
BRUCE BABBITT, Secretary**

**U.S. GEOLOGICAL SURVEY  
Gordon P. Eaton, Director**

---

For additional information write to:

District Chief  
U.S. Geological Survey  
4230 University Drive, Suite 201  
Anchorage, AK 99508-4664

Copies of this report may be purchased from:

U.S. Geological Survey  
Earth Science Information Center  
Open-File Reports Section  
Box 25286, MS 517  
Federal Center  
Denver, CO 80225-0425

# CONTENTS

Abstract .....	1
Introduction .....	1
Background .....	1
Location and history .....	1
Merrill Field FAA facilities .....	3
Physical setting .....	3
Climate .....	3
Vegetation .....	3
Geology .....	5
Hydrology .....	5
Surface water .....	5
Surface-water quality .....	8
Ground water .....	8
Ground-water quality .....	12
Drinking water .....	12
Present drinking-water supplies .....	12
Quality of present supplies .....	13
Alternative drinking-water sources .....	13
Summary .....	13
References cited .....	14
Appendix 1. Water-quality records for North Fork Chester Creek and drains near the Merrill Field airport .....	A-1
Appendix 2. Well inventory and water-quality data for wells in the Merrill Field airport area	A-13

## FIGURES

### 1-4. Maps showing:

1. Location of Merrill Field Airport, Anchorage, Alaska .....	2
2. Chester Creek drainage basin .....	6
3. Five-year average, mean daily discharge for Chester Creek at Arctic Boulevard, Anchorage for water years 1989-93 .....	7
4. Location of observation wells and geologic section through wetlands and the landfill .....	11

## TABLES

1. Mean monthly temperature, precipitation, and snowfall for the period 1952 to 1987, Anchorage International Airport, Anchorage, Alaska .....	4
2. Information on wells in the Merrill Field airport area .....	10
3. Wells near the Merrill Field airport area in which water sample concentrations exceeded drinking-water regulations .....	12

## CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATIONS

Multiply	By	To obtain
millimeter (mm)	0.03937	inch
meter (m)	3.281	foot
kilometer (km)	0.6214	mile
hectare (ha)	2.471	acres
square kilometer ( $\text{km}^2$ )	0.3861	square mile
meter per day (m/d)	3.281	foot per day
liter per day (L/d)	0.2642	gallon per day
cubic meter per second ( $\text{m}^3/\text{s}$ )	35.31	cubic foot per second
degree Celsius ( $^{\circ}\text{C}$ )	$^{\circ}\text{F} = 1.8 \times ^{\circ}\text{C} + 32$	degree Fahrenheit ( $^{\circ}\text{F}$ )

### Sea level:

In this report "sea level" refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

# Overview of Environmental and Hydrogeologic Conditions at Merrill Field Airport, Anchorage, Alaska

by Allan S. Nakanishi

## Abstract

The Federal Aviation Administration (FAA) operates facilities on or near Merrill Field airport in the Municipality of Anchorage, Alaska. The airport is surrounded by developed urban areas and up to 80 percent of the land surface is covered by asphalt, concrete, buildings, or other impervious surfaces. The airport area is underlain by unconsolidated glacial, alluvial, estuarine deposits, weakly lithified sedimentary rocks, and a large landfill. Ground water is available from both unconfined and confined aquifers within the unconsolidated deposits; however, most residential, commercial, and industrial consumers in the area obtain water from the municipal water-supply system.

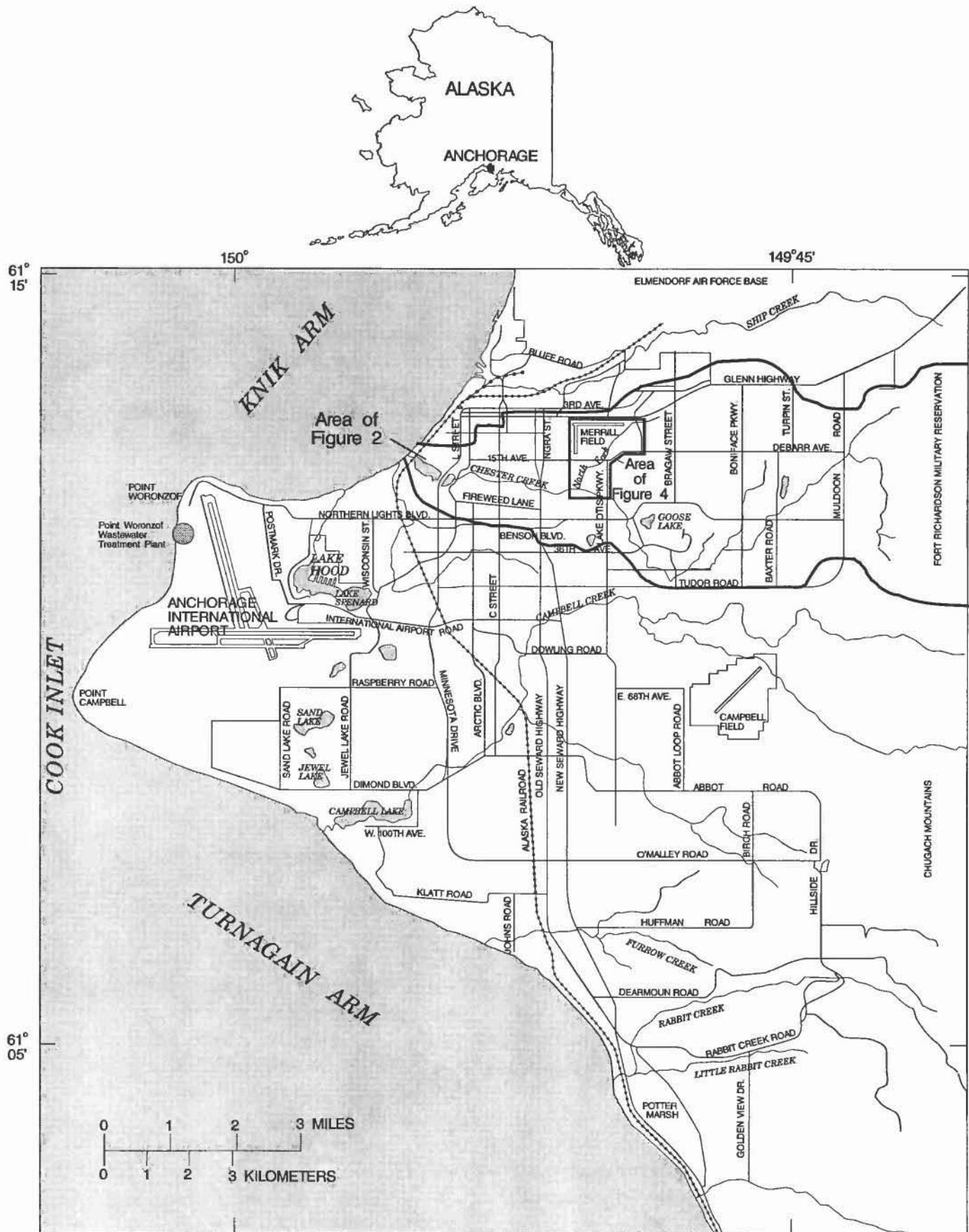
## INTRODUCTION

The Federal Aviation Administration (FAA) owns and (or) operates airway support and navigational facilities throughout Alaska. At many of these sites, fuels and potentially hazardous materials such as solvents, polychlorinated biphenyls, and pesticides may have been used and (or) disposed of. To determine if environmentally hazardous materials have been spilled or disposed of at the sites, the FAA is conducting environmental studies mandated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or "Superfund Act") and the Resource Conservation and Recovery Act (RCRA). To complete these more comprehensive environmental studies, the FAA requires information on the hydrology and geology of areas surrounding the sites. This report, the product of compilation, review, and summary of existing hydrologic and geologic data by the U.S. Geological Survey, in cooperation with the FAA, provides such information for the FAA facilities at Merrill Field Airport and nearby areas in Anchorage, Alaska.

## BACKGROUND

### Location and History

Anchorage is in south-central Alaska and had a population of approximately 240,000 in 1990, which was approximately 50 percent of the total State population (Alaska Department of Community and Regional Affairs, 1993). An area known locally as the "Anchorage Bowl" or the "Bowl," encompassing an area of approximately 470 km<sup>2</sup> (fig. 1), is bounded on the west by Cook Inlet, on the north by Knik Arm, on the east by the Chugach Mountains, and on the south by Turnagain Arm. The Merrill Field FAA facilities, on Merrill Field municipal airport, is in the Municipality of Anchorage at about lat 61°12' N. and long 149°50' W.



**Figure 1.** Location of Merrill Field Airport, Anchorage, Alaska.

In the 1940's, Merrill Field airport was constructed on what was then the outskirts of Anchorage. Along the southeast side of the airport was a bluff that overlooked North Fork Chester Creek and below the bluff were wetlands (Brunett, 1990). The Merrill Field solid-waste landfill was created in the 1940's by dumping refuse off the bluff near the east end of the Merrill Field Airport runway. When the landfill was closed in 1987, approximately 80 ha of the original wetlands had been covered with soil and refuse to an average thickness of about 10 m.

### **Merrill Field FAA Facilities**

The FAA owns and operates a flight service station (FSS), air traffic control tower (ATCT), visual approach slope indicators (VASI), and runway end identification lights (REIL) on Merrill Field airport (Ecology and Environment Inc., 1994). Approximately 30 FAA personnel operate and maintain the FAA facilities at Merrill Field airport. A detailed description of FAA facilities near Merrill Field and an investigation of potential sources of contamination is included in a report by Ecology and Environment, Inc. (1994).

## **PHYSICAL SETTING**

### **Climate**

Anchorage is located in a transitional climate zone, situated between maritime and continental climate zones. Seasonal precipitation patterns in this zone are not sharply defined, fluctuate from year to year, and may resemble those of either the maritime or continental climate zones (Hartman and Johnson, 1984). The mean annual temperature for Anchorage at the Anchorage International Airport (AIA), about 8 km southwest of the Merrill Field airport, is 2.1 °C, but temperatures range from a July mean maximum of 18.3 °C to a January mean minimum of about -13.2 °C. Precipitation increases with increasing elevation eastward toward the Chugach Mountains (Patrick and others, 1989). Mean annual precipitation at the AIA is about 390 mm and mean annual snowfall is approximately 1,760 mm (Leslie, 1989). Most rainfall occurs from July through October. Mean monthly temperature, precipitation, and snowfall for the weather station at the AIA are summarized in table 1.

### **Vegetation**

Selkregg and others (1972) provide a map and description of vegetation types in the Anchorage area. Vegetation near the Merrill Field airport generally includes four groups: interior forest, treeless bogs, spruce bogs, and developed areas. The interior forest is predominantly found on well-drained hills east of the Merrill Field airport. Tree species typical of the interior forest include white spruce, paper birch, balsam poplar, black cottonwood, and willow (Viereck and Little, 1972). Shrubs in the interior forest include wild rose, lingonberry, bunchberry, currant, and Labrador tea. Treeless bogs are found in poorly drained, flat areas north, east, and south of the airport where soils are too water saturated to support trees. Primary vegetation types include birch brush, Labrador tea, scrub willow, cotton grass, sphagnum moss, and sedges. Spruce bogs also have water-saturated soils and are found in close proximity to treeless bogs to the east and south of the airport. Typical vegetation types consist of black spruce less than 2 m in height, sphagnum mosses, sedges, grasses,

**Table 1.** Mean monthly temperature, precipitation, and snowfall for the period 1952-87, Anchorage International Airport, Anchorage, Alaska

[Modified from Leslie (1989); °C, degree Celsius; mm, millimeter]

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Temperature (°C)													
Mean maximum	-5.8	-3.3	0.3	5.8	12.4	16.6	18.3	17.2	12.8	4.9	-2.2	-5.8	5.9
	(Record maximum, 29.4 °C, June 1969)												
Mean minimum	-13.2	-11.7	-8.4	-2.3	3.6	8.3	10.7	9.5	4.9	-1.9	-9.0	-12.9	-1.9
	(Record minimum, -36.7°C, January 1975)												
Mean	-9.6	-7.5	-4.1	1.8	8.1	12.4	14.5	13.4	8.9	1.5	-5.7	-9.3	2.1
Precipitation (mm of moisture)													
Precipitation (mm)	20.3	21.8	16.5	16.0	16.0	25.9	49.8	58.7	63.8	47.2	27.4	26.9	390.4
Snowfall (mm)	223.5	309.9	236.2	154.9	5.1	0	0	0	7.6	193.0	274.3	355.6	1,760.2

and heath shrubs. Paper birch and white spruce, Labrador tea, prickly rose, willows, bog blueberry, red-fruit bearberry, crowberry and lingonberry are also common in spruce bogs. In developed areas such as the Merrill Field airport and the surrounding urban areas, up to 80 percent of the land surface is covered by asphalt, concrete, buildings, or other impervious surfaces (U.S. Army Corps of Engineers, 1979). Vegetation in these developed areas consist primarily of domestic grasses, shrubs, and trees.

## Geology

The geology of the Anchorage area has been described by Miller and Dobrovolny (1959) and Cederstrom and others (1964). Trainer and Waller (1965) summarized the subsurface deposits in the Anchorage area on the basis of water-well data. The well drillers' logs used in their analyses of the subsurface geology are in the files of the U.S. Geological Survey in Anchorage.

The Anchorage Bowl is underlain by unconsolidated deposits of Quaternary age, weakly lithified deposits of Tertiary age, and metamorphic rocks of Cretaceous/Jurassic age (Clark and others, 1976). The unconsolidated deposits beneath the airport generally consist of interlayered alluvial, glacial, and estuarine sediments. The alluvial and glacial sediments consist of silty sand and sand with some gravel (Schmoll and Dobrovolny, 1972; Freethy, 1976). The estuarine deposits are composed of clayey silt and silty clay with some interbedded sand (Ulery and Updike, 1983). The unconsolidated deposits thicken progressively from less than a few meters on much of the Chugach Mountains to about 300 m beneath the western part of the Anchorage Bowl (Freethy and Scully, 1980). Underlying the unconsolidated deposits are weakly lithified siltstone, claystone, and sandstone (Schmoll and Barnwell, 1984). Underlying these rocks and exposed in the Chugach Mountains are metamorphic sandstones, siltstones, and volcanic rocks. Glass (1988) provides a map of the depth to bedrock in the Anchorage Bowl. A geologic cross section through Anchorage extending eastward from downtown Anchorage on the shore of Knik Arm to the lower slopes of the Chugach Mountain front is presented by Schmoll and Barnwell (1984). The geologic cross section is a compilation of well logs drilled in the Anchorage area and includes logs of wells that are near Merrill Field airport.

## HYDROLOGY

### Surface Water

Major surface-water bodies near the airport include North Fork of Chester Creek, Chester Creek, Knik Arm of Cook Inlet (fig. 2), and wetlands.

Chester Creek heads in the Chugach Mountains and has a drainage area of about 80 km<sup>2</sup> upstream from Westchester Lagoon (fig. 2) (Brabets, 1987). North Fork Chester Creek originates about 1 km east of the airport and flows southwestward until it intersects with the main stem about 1 km south of the airport. In the early 1970's, the North Fork Chester Creek was diverted into a corrugated metal conduit through the middle of the Merrill Field landfill (Brunett, 1990). The conduit, which is still in use, leaves the landfill just west of Sitka Street. From the outlet of the conduit, North Fork Chester Creek flows southward in an open ditch to its junction with Chester Creek. The North Fork serves primarily as a storm drain for urbanized areas (Brabets, 1987). From the intersection of North Fork and the main stem, Chester Creek flows approximately 5 km to Westchester Lagoon and finally into Knik Arm of Cook Inlet.

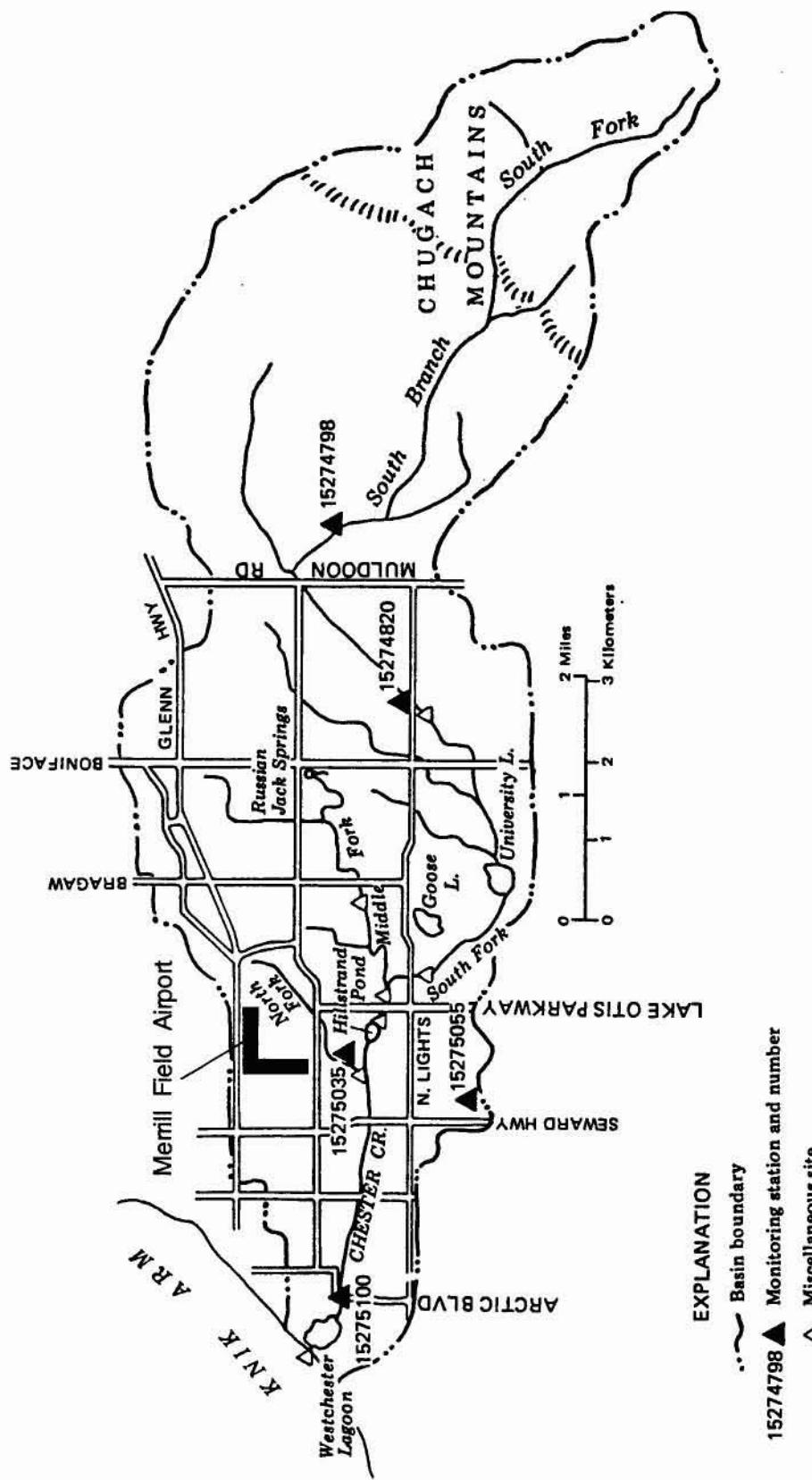
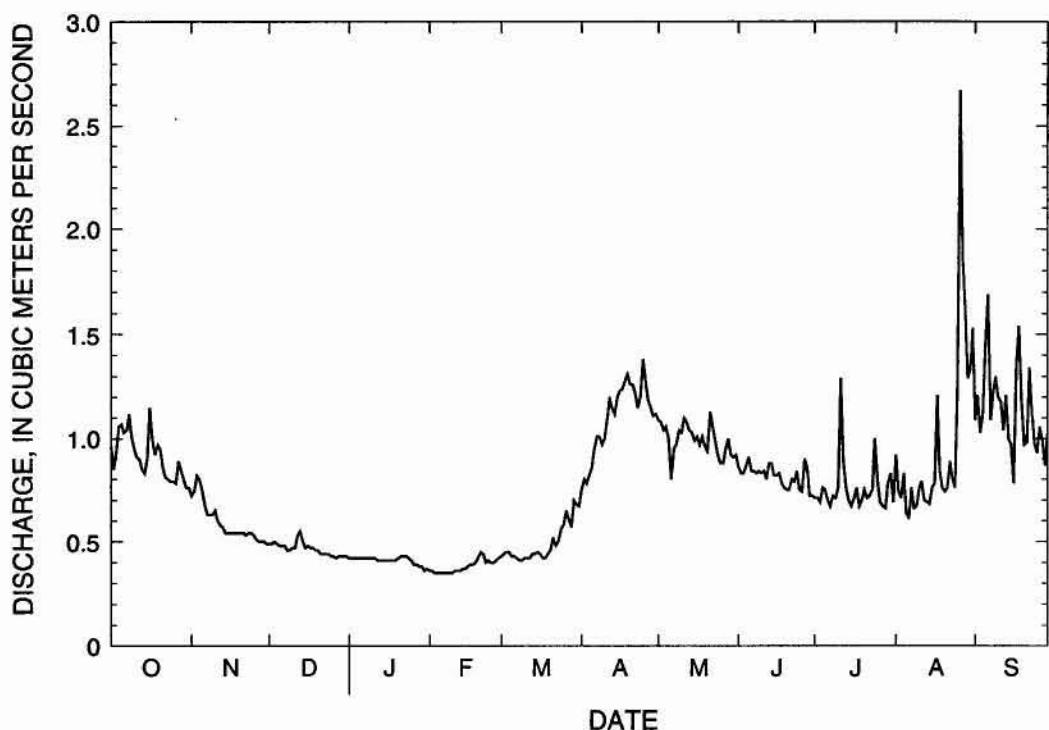


Figure 2. Chester Creek drainage basin. (Modified from Brabets, 1987.)

At Arctic Boulevard, mean daily discharges commonly range from about 0.5 to 3.0  $\text{m}^3/\text{s}$  (fig. 3). The drainage area upstream from Arctic Boulevard is approximately 70  $\text{km}^2$  (Still and Cosby, 1989). The average annual runoff from the Chester Creek basin is about 230 mm, and runoff measured at a station upstream from the mouth of North Fork (station No. 15275035, fig. 2) is about 100 mm (Brabets, 1987). Runoff from paved areas and other impervious surfaces in the drains upstream from this site are reflected in the hydrograph (fig. 3) as short duration peaks. An impoundment at the mouth of Chester Creek, regulates outflow and maintains the water level of Westchester Lagoon.



**Figure 3.** Five-year average, mean daily discharge for Chester Creek at Arctic Boulevard, Anchorage, water years 1989-93.

Runoff from the airport is diverted into a storm-water drainage system and discharges through a single outfall onto the wetlands south of the airport. Prior to the 1991, the landfill buried some of the airport drainage outfall lines. During 1991, the drainage outfall lines that ran under the landfill were abandoned and new outfall routes, serving the airport only, were constructed (Dave Lundeby, Merrill Field airport manager, oral commun., 1994).

In the early 1970's, a leachate collection system (subdrain) was installed in the landfill at the top of a confining clay layer to intercept the leachate and discharge it into the sanitary sewer system. The subdrain routes the leachate to a lift station about 60 m east of the intersection of East 15th Avenue and Sitka Street. From here, the leachate is pumped into a concrete sanitary sewer line and eventually reaches the Point Woronzof Wastewater Treatment Facility (fig. 1) (Brunett, 1990).

## Surface-Water Quality

A 1991 study by USGS on the water quality from the airport drainage outfall system, prior to the upgrade, reported evidence that effluent from the landfill entered the drainage system and discharged onto the wetlands (R.L. Rickman, USGS, written commun, 1991). It is believed that the effluent from the landfill no longer enters the upgraded drainage system; however, water-quality tests of the current drainage system have not been done (Dave Lundeby, Merrill Field airport manager, oral commun., 1994).

According to Brunett (1990), North Fork Chester Creek does not appear to undergo significant contamination during its transit through its conduit buried in the landfill, but it was suggested that a small amount of leachate may be entering the creek through leaks in the conduit. Trace amounts of six organic compounds, only one of which is present in the creek above the landfill, were detected in samples from the conduit outlet. The concentrations of iron and manganese, both of which are commonly present in high concentrations in leachate, increase in concentration in Chester Creek downstream from the landfill (Brunett, 1990; appendix 1). Sodium and chloride, however, which are commonly highly concentrated in leachate, were found at lower concentrations downstream from the landfill.

A 2-year water-quality study of the Chester Creek basin during 1982-83 reported that fecal coliform bacteria concentrations near the mouth of Chester Creek exceeded State of Alaska drinking-water regulations during all levels of flow (Brabets, 1987). Lead concentrations exceeded State regulations during rainfall-runoff periods and snowmelt periods. Chloride concentrations exceeded State regulations during snowmelt periods. Water-quality records for North Fork Chester Creek and drains near the Merrill Field airport are shown in appendix 1.

Water from Chester Creek is not used for drinking water, but is used extensively for recreation. No commercial fisheries are present at Chester Creek or Westchester Lagoon, although recreational fishing does occur. Murphy and others (1972) studied the effect of discharging domestic wastewater into Cook Inlet and concluded that because the inlet is a "completely and continuously mixed basin," it is unlikely to become adversely affected by domestic waste water discharge by a population of 10 times that of the 1990 Anchorage census. The study by Murphy and others (1972), however, did not examine the potential effects of hazardous waste discharge into Cook Inlet.

## Ground Water

The sediments in the Anchorage Bowl generally form a freshwater aquifer system consisting of an unconfined aquifer and one or more confined aquifers separated by less permeable layers. Recharge to the aquifers is primarily from infiltration of precipitation and seepage from streams. Patrick and others (1989) present an analysis of the distribution and relative contribution of recharge to the aquifer system. An estimated 280 to 380 million L/d is naturally lost from the ground-water system in the Anchorage Bowl from evaporation, plant transpiration, and seepage (Glass, 1987).

Patrick and others (1989, fig. 4) provide a generalized map illustrating the variation in thickness of the unconfined aquifer throughout the Anchorage Bowl. The thickness of the unconfined aquifer in the vicinity of the Merrill Field airport and landfill ranges from 0 m to about 15 m. The depth to ground water at the Merrill Field landfill is generally less than 3 m (Freethy and others, 1974). North of the landfill, beneath much of the airport where the topography is slightly higher, the depth to ground water is generally greater than 6 m. The surficial deposits near the airport and landfill are considered highly to very highly permeable relative to other soils in the Anchorage area (Freethy, 1976). Hydraulic conductivity is the capacity of geologic materials to transmit water.

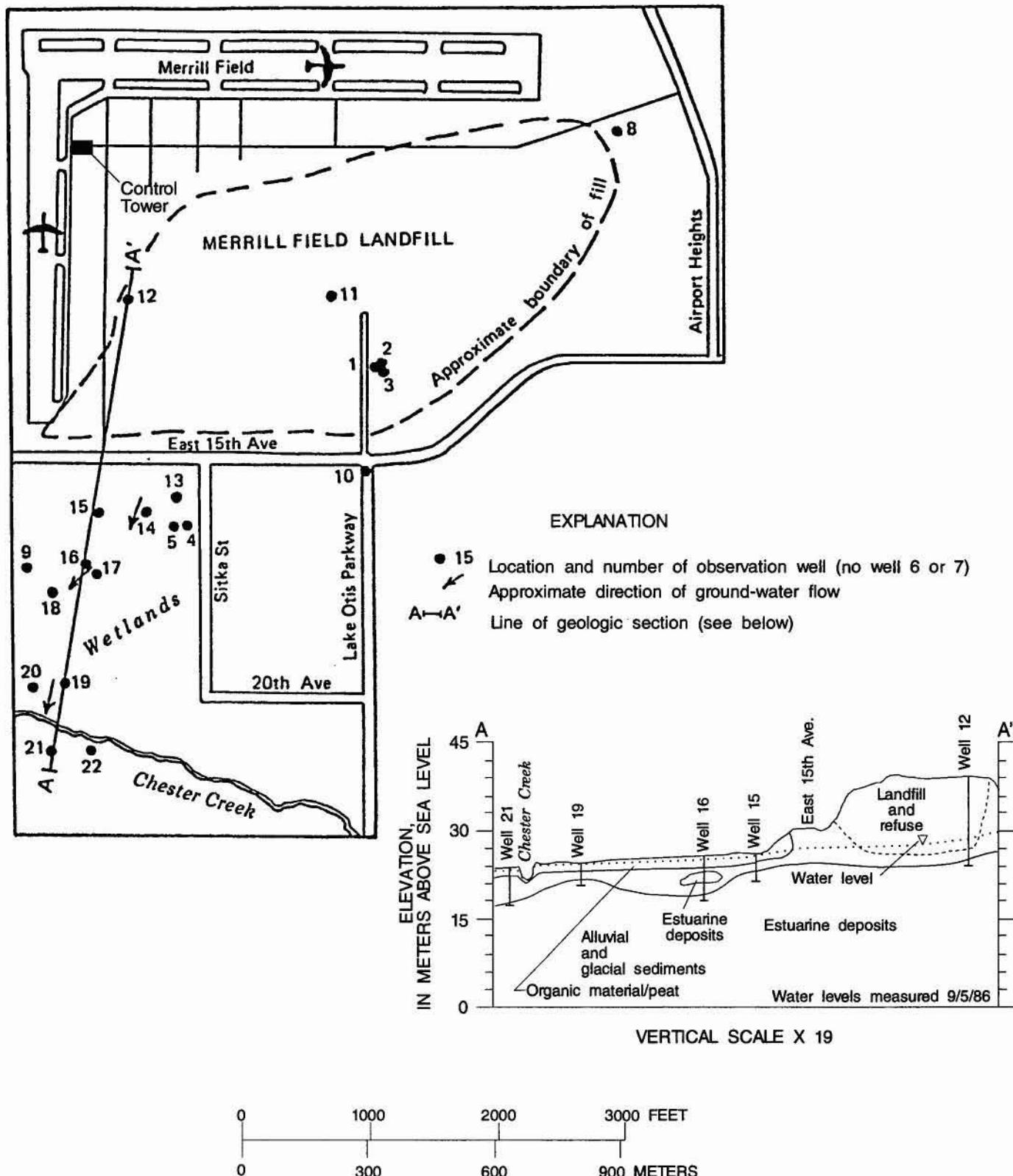
The rate at which water can flow laterally through geologic materials is proportional to the horizontal hydraulic conductivity. On the basis of local lithology and specific capacity data, Patrick and others (1989) estimated that horizontal hydraulic conductivity of the unconfined aquifer in the Anchorage Bowl ranged from about 1 to 46 m/d. The horizontal hydraulic conductivity of the sediments of the unconfined aquifer in the vicinity of Merrill Field was estimated to be about 5 m/d (Patrick and others, 1989).

The confined aquifer underlying the Anchorage Bowl generally thickens from east to west. The thickness of the confined aquifer ranges from 0 m near the mountain front to more than 330 m in the western part of the Anchorage Bowl. Adjacent to the Chugach Mountains, the confined and unconfined aquifers share a common source of recharge because the confining sediments are discontinuous. Patrick and others (1989, fig. 6) provide a generalized map illustrating the variation in thickness of the confined aquifer. The thickness of the confined aquifer in the vicinity of the airport ranges from about 150 to 180 m. Patrick and others (1989, fig. 13) estimated that the horizontal hydraulic conductivity of the sediments of the confined aquifer in the Anchorage Bowl ranged from 0.9 to 21 m/d. In the vicinity of the airport, the hydraulic conductivity of the sediments of the confined aquifer was approximately 3 m/d.

The confining layers are variable in lithology and thickness, which results in local differences in their ability to retard movement of water from one aquifer to another. The main confining layer in the central part of the Anchorage Bowl is the estuarine deposits—an areally extensive layer of silty clay and clayey silt with some interbedded lenses of sand. In the western and eastern parts of the Anchorage Bowl, confining layers generally consist of coarser till or till-like deposits and may be discontinuous or absent. The confining layer ranges in thickness from 0 to about 80 m beneath the Anchorage Bowl and from 15 to 30 m beneath the airport (Patrick and others, 1989, fig. 5). The vertical hydraulic conductivity of the confining layers was estimated to be approximately 0.00003 m/d where the confining layers are predominantly clay and 0.3 m/d along the mountain front area where the confining layers are discontinuous.

Nelson (1982) estimated that the vertical hydraulic conductivity of the confining unit was 0.003 m/d for gravelly sand and silt, and 0.00006 m/d for silty clay. Some of the refuse at the landfill has been buried below the water table, creating an environment in which the refuse is continuously leached. Nelson (1982) estimated that it would take many tens of years for minor amounts of pollutants to reach the confined aquifer and about 300 years for water with the composition of the leachate to reach the confined aquifer, had municipal pumping continued at its 1980 rate. However, the Municipality has significantly reduced ground-water pumping since the Eklutna water system began delivering water to Anchorage. As a result of the reduced ground-water pumping, vertical ground-water gradients near Merrill Field are upward. Upward gradients will prevent downward migration of soluble contaminants (Gordon Nelson, U.S. Geological Survey, oral commun., 1995).

A mathematical simulation of ground-water flow by Patrick and others (1989) indicated that the regional ground-water flow direction in the Anchorage Bowl is westward from the Chugach Mountains towards Cook Inlet. A water-table contour map based on measured water levels in the unconfined aquifer shows that locally, ground water at Merrill Field airport flows to the southwest towards Chester Creek (Dearborn and Freethy, 1974). A study of the lateral migration of contaminants in the shallow, unconfined aquifer near the landfill also shows that ground-water generally flows from the Merrill Field airport and landfill areas southwestward towards Chester Creek (fig. 4). A series of wells drilled in the landfill and in wetlands south of the landfill provide information (table 2) on the ground-water flow direction and subsurface geology of the area (fig. 4).



**Table 2.** Information on wells in the Merrill Field airport area

[Data modified from Brunett (1990)]

Well No. (fig. 4)	Date drilled	Well depth (meters)	Well completion		Water level (Measured Sept. 5, 1986)	
			Type	Screened interval (meters)	Depth (meters)	Elevation above mean sea level (meters)
1	6/06/74	35	Open end	--	12.3	24.7
2	6/10/74	27	Open end	--	12.2	24.7
3	6/11/74	12	Screened	4-6	8.63	28.3
4	8/17/76	28	Open end	--	1.63	24.5
5	8/28/76	11	Screened	9-11	1.67	24.6
8	10/03/85	6	Screened	3-6	1.15	32.7
9	10/03/85	8	Screened	5-8	1.13	21.9
10	10/09/85	14	Screened	8-14	2.31	27.2
11	10/01/85	21	Screened	15-21	11.7	27.7
12	10/02/85	15	Screened	9-15	9.15	27.9
13	9/2/86	6	Screened	3-6	2.07	24.4
14	9/2/86	6	Screened	3-6	1.94	24.0
15	9/3/86	5	Screened	2-5	0.20	23.8
16	9/3/86	6	Screened	3-6	0.20	23.3
17	9/3/86	6	Screened	2-5	0.20	23.2
18	9/4/86	5	Screened	2-5	0.20	22.5
19	9/4/86	5	Screened	2-5	-0.02	22.0
20	9/4/86	6	Screened	2-5	0.17	21.4
21	8/28/86	6	Screened	3-6	0.01	21.3
22	8/28/86	6	Screened	3-6	0.06	21.9

## Ground-Water Quality

Water-quality tests of samples taken from wells downgradient from the landfill near the airport indicated that minor amounts of contaminants have reached the wetlands as far south as Chester Creek (Brunett, 1990). Wells from which samples had concentrations of some constituents that exceeded U.S. Environmental Protection Agency (1993) maximum contaminant levels (MCL) for drinking water are shown in table 3.

**Table 3.** Wells near Merrill Field airport in which water sample concentrations exceeded drinking-water regulations

[Data modified from Brunett (1990);  $\mu\text{g/L}$ , microgram per liter; USEPA, U.S. Environmental Protection Agency; MCL, maximum contaminant level]

Constituent	Wells in which observed (fig. 4)	USEPA (1993) MCL for drinking water ( $\mu\text{g/L}$ )	Maximum sample concentration detected ( $\mu\text{g/L}$ )
Benzene	3, 12	5.0	20
Trichloroethylene	12	5.0	8.0
Vinyl chloride	3, 11, 12, 14	2.0	53
Arsenic, total	1, 2, 5	50	130
Chromium, total	8, 9	100	350
Iron, total	All, except 1, 4, 21	300	500,000
Lead, total	3, 10, 11, 22	50	300
Manganese, total	All	50	84,000
Nickel, total	8, 9, 10, 11, 12, 15, 17, 18, 22	100	1,000

## Drinking Water

### Present Drinking-Water Supplies

Most of the water used for domestic, industrial, and commercial uses in the airport area is from a public water-distribution system; relatively few people utilize private water wells. The water system, operated by the Anchorage Water and Wastewater Utility (AWWU), is supplied from two surface water sources—Eklutna Lake and Ship Creek (fig. 1)—and from wells located throughout the city (AWWU, 1993). Water from Ship Creek, is withdrawn at a dam located at the mouth of a canyon on the edge of the Chugach Mountains. In 1992, Ship Creek supplied an average 47.3 million L/d and has a production capacity of 90.8 million L/d. Eklutna Lake, located approximately 24 km northeast of downtown Anchorage, supplied approximately 34.4 million L/d in 1992 and has a production capacity of 133 million L/d (AWWU, 1993). The Municipality of

Anchorage also pumps water from 19 wells: 1 well is pumped continuously, 12 wells are used intermittently, and 6 are pumped for only maintenance purposes and are available if needed. In 1992, ground-water sources provided an average of 8.2 million L/d to the city's water system but have a production capacity of 89.3 million L/d. Total water withdrawals for the Municipality of Anchorage in 1990 represent about 25 percent of the combined production capacity of the surface- and ground-water sources. Pumpage data for wells in the Anchorage area during 1990 is summarized by Petrik (1991).

Most private wells used for water supply in the Merrill Field area were installed during a period of accelerated residential development before municipal services were extended into these locations. Records in the USGS Ground Water Site Inventory (GWSI) database for wells within about a 1-km radius from Merrill Field airport control tower are shown in appendix 2. A recent survey, however, has not been conducted to determine how many of the wells in the area are currently in use.

### **Quality of Present Supplies**

Surface water is flocculated, filtered, chlorinated, and fluoridated before it is distributed; ground water is chlorinated and fluoridated (AWWU, 1993). The AWWU Annual Water Quality Report for 1992 (AWWU, 1993) contains water-quality data for surface and ground-water supplies and indicates both met the drinking-water regulations established by State of Alaska.

### **Alternative Drinking-Water Sources**

If the aquifer(s) become contaminated, new wells could be drilled outside the affected area or the municipal water system could be made available as an alternative water supply. The AWWU system has the capacity to increase production and a water distribution system already exists in much of the area in and around the Merrill Field airport area.

## **SUMMARY**

The Federal Aviation Administration operates airway support and navigation facilities on Merrill Field in an urban area east of downtown Anchorage. A solid-waste landfill formerly occupied the eastern and southern sides of the airport. Water-quality records from ground-water drains and nearby surface water reflect high concentrations of some constituents commonly associated with landfill leachate. Most residential, commercial, and industrial consumers in the area obtain water from a municipal water-supply system.

## REFERENCES CITED

Alaska Department of Community and Regional Affairs, 1993, Community profile database for Anchorage, Alaska: Alaska Department of Community and Regional Affairs, 19 p.

Anchorage Water and Wastewater Utility, 1993, Annual water quality report—1992: Municipality of Anchorage, Anchorage Water and Wastewater Utility, 9 p.

Brabets, T.P., 1987, Quantity and quality of urban runoff from the Chester Creek basin, Anchorage, Alaska: U.S. Geological Survey Water-Resources Investigations Report 86-4312, 58 p.

Brunett, J.O., 1990, Lateral movement of contaminated ground water from Merrill Field landfill, Anchorage, Alaska: U.S. Geological Survey Open-File Report 89-624, 20 p.

Cederstrom, D.J., Trainer, F.W., and Waller, R.M., 1964, Geology and ground-water resources of the Anchorage area, Alaska: U.S. Geological Survey Water-Supply Paper 1773, 108 p.

Clark, S.H.B., Yount, M.E., and Bartsch, S.R., 1976, Reconnaissance geologic map and geochemical analysis of stream-sediment and rock samples of the Anchorage A-7 and A-8 quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-765, 3 sheets.

Dearborn, L.L., and Freethey, G.W., 1974, Water-table contour map, Anchorage area, Alaska: U.S. Geological Survey Open-File Report 1974, 1 sheet.

Ecology and Environment, Inc., 1994, Environmental compliance investigation report for Merrill Field FAA station, Anchorage, Alaska: Anchorage [Draft report available from Federal Aviation Administration, Alaskan Region], variously paged.

Freethey, G.W., 1976, Relative permeability of surficial geologic materials, Anchorage and vicinity, Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-787-F, 1 sheet.

Freethey, G.W., Reeder, J.W., and Barnwell, W.W., 1974, Map showing depth to water, Anchorage area, Alaska: U.S. Geological Survey Open-File Report, 1 sheet.

Freethey, G.W., and Scully, D.R., 1980, Water resources of the Cook Inlet Basin: U.S. Geological Survey Hydrologic Investigations Atlas HA-620, 4 sheets.

Glass, R.L., 1987, Ground-water levels in Anchorage, Alaska: U.S. Geological Survey Open-File Report 87-548, 15 p. + 1 map.

—, 1988, Map showing depth to bedrock, Anchorage, Alaska: U.S. Geological Survey Open-File Report 88-198, 1 sheet.

Hartman, C.W., and Johnson, P.R., 1984, Environmental atlas of Alaska: University of Alaska Fairbanks, Institute of Water Resources/Engineering Experiment Station, 95 p.

Leslie, L.D., 1989, Alaska climate summaries (2d ed.): University of Alaska, Anchorage, Arctic Environmental Information and Data Center, Alaska Climate Center Technical Note 5.

Miller, R.D., and Dobrovolny, E., 1959, Surficial geology of Anchorage and vicinity, Alaska: U.S. Geological Survey Bulletin 1093, 128 p.

Murphy, R.S., Carlson, R.F., Nyquist, D., and Britch, R., 1972, Effect of waste discharges into a silt-laden estuary--A case study of Cook Inlet, Alaska: University of Alaska, Institute of Water Resources Publication No. IWR 26, 25 p.

Nelson, G.L., 1982, Vertical movement of ground water under the Merrill Field landfill, Anchorage, Alaska: U.S. Geological Survey Open-File Report 82-1016, 24 p.

Patrick, L.D., Brabets, T.P., and Glass, R.L., 1989, Simulation of ground-water flow at Anchorage, Alaska, 1955-83: U.S. Geological Survey Water-Resources Investigations Report 88-4139, 41 p.

Petrik, W.A., 1991, Estimated use of water in the United States 1990—Selected large Alaskan public water suppliers, documentation and data forms: Alaska Division of Geological and Geophysical Surveys Public-Data File 91-26, 179 p.

Schmoll, H.R., and Barnwell, W.W., 1984, East-west geologic cross section along the DeBarr Line, Anchorage, Alaska: U.S. Geological Survey Open-File Report 84-791, 11 p., 1 sheet, scale 1:25,000.

Schmoll, H.R., and Dobrovolny, Ernest, 1972, Generalized geologic map of Anchorage and vicinity, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-787-A, scale 1:24,000, 1 sheet.

Selkregg, L.L., Buck, E.H., Buffler, R.T., Coté, O.E., Evans, C.D., and Fisk, S.G., 1972, Environmental atlas of the Greater Anchorage Area Borough, Alaska: University of Alaska, Anchorage, Arctic Environmental Information and Data Center, Resource and Science Services, Alaska Sea Grant Program Report No. 72-4, 105 p.

Still, P.J., and Cosby, J.M., 1989, Alaska index—Streamflow, lake levels, and water-quality records to September 30, 1988: U.S. Geological Survey Open-File Report 89-269, 189 p.

Trainer, F.W., and Waller, R.M., 1965, Subsurface stratigraphy of glacial drift at Anchorage, Alaska: U.S. Geological Survey Professional Paper 525-D, p. D167-D174.

Ulery, C.A., and Updike, R.G., 1983, Subsurface structure of the cohesive facies of the Bootlegger Cove formation, southwest Anchorage: Alaska Division of Geological and Geophysical Surveys Professional Report PR-84, 5 p.

U.S. Army Corps of Engineers, 1979, Soils of the Anchorage area, Alaska: U.S. Soil Conservation Service, Metropolitan Anchorage Urban Study, Volume 7, 124 p.

U.S. Environmental Protection Agency, 1993, Drinking water regulations and health advisories: U.S. Environmental Protection Agency report, 11 p.

Viereck, L.A., and Little, E.L. Jr., 1972, Alaska trees and shrubs: U.S. Department of Agriculture Handbook No. 410, 265 p.

---

---

## **APPENDIX 1**

Water-quality records for North Fork Chester Creek and drains near the Merrill Field airport

---

---

15275037 - MERRILL FIELD STORM DRAIN EAST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	LAT- I- TUDE	LONG- I- TUDE	MEDIUM CODE	SAMPLE TYPE	RECORD NUMBER	STREAM WIDTH	CROSS SECTION	TEMPER- ATURE	SAMPLE LECTING	AGENCY
							(FT (FT)	(FT FM L BANK)	WATER (DEG C)	SAMPLE (CODE (00009)	NUMBER (00010)
AUG 22...	1800	61 12 30 N	149 50 58 W	9	9	99100311	--	--	8.5	1028	
SEP 15...	1010	61 12 30 N	149 50 58 W	9	9	99100341	--	--	10.5	1028	
SEP 15-15	1010	61 12 30 N	149 50 58 W	9	H	99100344	--	--	--	1028	
SEP 19...	1928	61 12 30 N	149 50 58 W	9	9	99100336	9.00	1.00	12.0	1028	
SEP 19-19	1930	61 12 30 N	149 50 58 W	9	H	99100337	--	--	--	1028	

15275037 - MERRILL FIELD STORM DRAIN EAST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	AGENCY (CODE NUMBER) (00028)	DIS- CHARGE, ANA- LYZING SAMPLE FEET	OXYGEN SPECIFIC CUBIC CON- ICAL DUCT- (HIGH LEVEL)	PH DEMAND, CHEM- ICAL FIELD (STAND- ARD)	PH WATER WHOLE FIELD (STAND- ARD)	ALKA- LINITY WAT WH TOT FET	ALKA- LINITY WAT WH TOT IT	RESIDUE TOTAL AT 105 DEG. C. FIELD FIELD SUS- PENDED	OIL AND GREASE, TOTAL RECOV. GEN, GRAVI- TOTAL METRIC (MG/L AS N) (00556)	NITRO- GEN, INST. CIFIC CUBIC CON- ICAL DUCT- (HIGH LEVEL)	
		PER SECOND (00061)	ANCE (US/CM) (00095)	LEVEL (MG/L) (00340)	UNITS (00400)	UNITS (00403)	MG/L AS CACO3 (00410)	MG/L AS CACO3 (00419)	(00530)	(00600)	
AUG 22...	80020	0.01	6150	41	6.3	6.0	1410	1920	340	3	77
SEP 15...	80020	0.96	112	120	6.6	6.8	39	40	19	1	1.9
SEP 15-15	80020	--	166	170	--	6.8	60	56	20	--	3.2
SEP 19...	80020	16	18	62	6.3	6.8	5	4	22	3	0.90
SEP 19-19	80020	--	--	71	--	6.7	14	9	34	--	1.1

15275037 - MERRILL FIELD STORM DRAIN EAST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO-										PHOS-			
	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHATE, TOTAL (MG/L AS P04) (00650)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHORUS ORGANIC TOTAL (MG/L AS P) (00670)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)				
AUG 22...	9.0	67.0	0.030	0.840	76	0.870	0.03	0.090	0.08	1500				
SEP 15...	0.40	1.30	0.020	0.220	1.7	0.240	0.06	0.050	0.03	36				
SEP 15-15	1.0	1.90	0.020	0.290	2.9	0.310	--	0.040	--	54				
SEP 19...	0.64	0.160	0.020	0.080	0.80	0.100	0.09	0.140	0.11	11				
SEP 19-19	0.52	0.480	0.020	0.090	1.0	0.110	0.09	0.100	0.07	15				

15275037 - MERRILL FIELD STORM DRAIN EAST AT ANCHORAGE AK  
WATER-QUALITY DATA. WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

AUG										
22...	200	160	0.40	0.010	86	340	80.0	0.27	70	3840
SEP										
15...	5.5	3.8	<0.01	0.020	1.7	8.6	80.0	0.27	--	106
SEP										
15-15	7.4	5.0	<0.10	<0.010	2.4	14	80.0	0.27	70	166
19...	1.8	1.5	<0.10	0.030	0.21	4.0	80.0	0.27	70	43
SEP										
19-19	2.8	1.8	<0.10	0.030	0.62	4.9	80.0	0.27	90	55

15275038 - MERRILL FIELD STORM DRAIN WEST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	LAT-	LONG-	I-	I-	MEDIUM	SAMPLE	RECORD	TEMPER-	AGENCY		AGENCY	FLOW
										TUDE	TUDE		
									(DEG C)	(CODE)	(CODE)		TANEOUS
									(00010)	(00027)	(00028)	(G/M)	
									(00059)				

MAY	07...	2140	61	12	30	N	149	51	00	W	9	9	99200062	4.5	1028	80020	1.1
MAY	07-07	2145	61	12	30	N	149	51	00	W	9	H	99200063	5.0	1028	80020	--

15275038 - MERRILL FIELD STORM DRAIN WEST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DIS- CHARGE,	SPE- DEMAND,	OXYGEN WATER	PH WATER	PH WHOLE	ALKA- LINITY	ALKA- LINITY	RESIDUE TOTAL	OIL AND GREASE,	NITRO-	
INST- CIFIC	CHEM- ICAL	WHOLE FIELD	WAT WH LAB	WAT WH TOT FET	WAT WH TOT FET	AT 105 DEG. C.	TOTAL RECOV.	GEN,		
CUBIC CON-	FEET DUCT-	(HIGH (STAND- ANCE LEVEL)	(STAND- ARD ARD)	FIELD	FIELD	SUS- PENDED	GRAVI- METRIC	TOTAL		
DATE	PER SECOND	(US/CM) (00095) (00061)	(MG L) (00340)	(UNITS) (00400)	(UNITS) (00403)	CACO3 (00410)	CACO3 (00419)	(MG/L) (00530)	(MG L) (00556)	(AS N) (00600)

<b>MAY</b>											
07...	<0.01	27	59	7.3	6.3	6	6	260	<1		1.0
<b>MAY</b>											
07-07	<0.01	26	60	--	6.4	6	6	60	--		0.78

15275038 - MERRILL FIELD STORM DRAIN WEST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO-GEN, AMMONIA, NITRITES, NITRATES, PHOSPHATES, PHOSPHATES, PHORUS, CARBON, ORGANIC, TOTAL									
	NITRO-GEN, ORGANIC	NITRO-GEN, AMMONIA	NITRO-GEN, NITRITES	NITRO-GEN, NITRATES	NITRO-MONIA + ORGANIC	NITRO-GEN, NO2+NO3	PHOS-PHATE, AS P04	PHOS-PHORUS, AS P)	PHOS-PHORUS, AS P)	CARBON, ORGANIC
	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
	(AS N)	(AS N)	(AS N)	(AS N)	(AS N)	(AS N)	(AS P04)	(AS P)	(AS P)	(AS C)

15275038 - MERRILL FIELD STORM DRAIN WEST AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHLO-	FLUO-	PHOS-	NITRO-	ELEV.			SPE-	
	RIDE,	SULFATE	RIDE,	PHORUS	GEN,	NITRO-	OF LAND	DRAIN-	CIFIC
DIS-	DIS-	DIS-	ORTHO	AMMONIA	GEN,	DATUM	AGE	CON-	
SOLVED	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	(FT.	AREA	DUCT-	
(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	NGVD)	MT.)	ANCE	
AS CL)	AS SO4)	AS F)	AS P)	AS NH4)	AS NO3)		(SQ.	LAB	
(000940)	(000945)	(000950)	(70507)	(71845)	(71887)	(72000)	(81024)	(82398)	
(US/CM)									
(90095)									

MAY	07...	2.0	1.0	<0.10	0.100	0.42	4.5	80.0	0.02	70	32
MAY	07-07	1.8	1.0	<0.10	0.180	0.37	3.5	80.0	0.02	70	32

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	LAT-	LONG-	TEMPER-			BARO-	
		I-TUDE	I-TUDE	MEDIUM	SAMPLE	RECORD	ATURE	ATURE
		CODE	TYPE	NUMBER	WATER	AIR	PRES-	
					(DEG C)	(DEG C)	SURE	
					(00010)	(00020)	(MM OF HG)	
							(00025)	

SEP	12...	1240	61 12 20 N	149 50 36 W	9	9	98001256	7.5	8.0	770
-----	-------	------	------------	-------------	---	---	----------	-----	-----	-----

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	DIS-	OXYGEN,	PH	ALKA-	BICAR-	CAR-	COLI-
	CHARGE,	SPE-	DIS-	CARBON	BONATE	BONATE	FORM,
INST.	CIFIC	SOLVED	WATER	LINITY	WAT WH	WATER	FECAL,
CUBIC	CON-	OXYGEN,	WHOLE	DIOXIDE	WAT WH	WATER	
FEET	DUCT-	(PER-	FIELD	DIS-	TOT FET	WH FET	0.7
PER	ANCE	DIS-	FIELD	FIELD	FIELD	FIELD	UM-MF
SECOND	(US/CM)	SOLVED	(STAND-	SOLVED	FIELD	FIELD	
(00061)	(00095)	(00300)	(00301)	(00400)	(00405)	(00410)	(00440)
(00445) (31625)							

SEP	12...	1.2	375	12.0	99	6.5	56	90	110	0	<1
-----	-------	-----	-----	------	----	-----	----	----	-----	---	----

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-	LONG-	TEMPER-			DIS-	
		I-TUDE	I-TUDE	MEDIUM	SAMPLE	RECORD	AGENCY	AGENCY
		CODE	TYPE	NUMBER	ATURE	LECTING	ANALYZING	SPE-
					WATER	SAMPLE	SAMPLE	CIFIC
					(DEG C)	(CODE NUMBER)	(CODE NUMBER)	INST.
					(00010)	(00027)	(00028)	DUCT-
								ANCE

DEC	02...	1200	61 12 20 N	149 50 36 W	9	9	98600389	--	1028	80020	1.0	430
AUG	27...	1230	61 12 20 N	149 50 36 W	9	9	98600537	10.5	1028	80020	2.2	180

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAMPLE	PH	PH	ALKA-	NITRO-			PHOS-		HARD-	MAGNE-			
		WATER	WATER	LINITY	GEN.	NO2+NO3	PHORUS	ORTHO.	NESS			CALCIUM	SIMUM,	SODIUM,
		WHOLE	WHOLE	WAT WH	TOT FET	NITRATE	DIS-	DIS-	CYANIDE			TOTAL	(MG/L)	DIS-
TREAT-	FIELD	LAB	FIELD	TOTAL	SOLVED	SOLVED	TOTAL	(MG/L)	AS	SOLVED	SOLVED			
MENT	ARD	ARD	MG/L AS	(MG/L)										
(CODES)	UNITS	UNITS	CACO3	AS N)	AS N)	AS P)	AS CN)	AS CN)	AS CA)	AS MG)	AS NA)			
(00115)	(00400)	(00403)	(00410)	(00620)	(00631)	(00671)	(00720)	(00900)	(00915)	(00925)	(00930)			

DEC													
02...	1	--	8.0	126	1.90	1.90	<0.010	<0.010	190	53	15	15	
AUG	27...	1	5.7	6.7	59	0.650	0.650	<0.010	--	80	23	5.4	8.3

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SODIUM	POTAS-	CHLO-	FLUO-			SILICA,	BERYL-			CHRO-	
		AD-	SIMUM,	RIDE,	SULFATE	RIDE,	DIS-		LITUM,	CADMIUM	MUUM,	COPPER,
		SORP-	DIS-	DIS-	DIS-	SOLVED	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	TOTAL
TION	RATIO	SODIUM	(MG/L)	(MG/L)	(MG/L)	(MG/L)	ARSENIC	RECOV-	RECOV-	RECOV-	RECOV-	
		PERCENT	AS K)	AS CL)	AS SO4)	AS F)	(MG/L)	ERABLE	ERABLE	ERABLE	ERABLE	
		(00931)	(00932)	(00935)	(00940)	(00945)	(00950)	(00955)	(01002)	(01012)	(01027)	
							(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
							AS AS)	AS BE)	AS CD)	AS CR)	AS CU)	

DEC													
02...	0.5	14	2.6	45	25	<0.10	17	<1	<10	<1	8	4	
AUG	27...	0.4	18	2.0	19	14	0.10	7.3	3	--	1	24	23

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	IRON,	MANGA-			MANGA-			NICKEL,	SILVER,	ZINC,
	SUS-	IRON,	LEAD,	NESE,	NESE,	MANGA-				
	PENDED	TOTAL	IRON,	TOTAL	SUS-	TOTAL	NESE,			
RECOV-	RECOV-	DIS-	RECOV-	PENDED	RECOV-	THAL-				
ERABLE	ERABLE	SOLVED	ERABLE	ERABLE	DIS-	LITUM,				
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	TOTAL				
	AS FE)	AS FE)	AS FE)	AS PB)	(UG/L)	ERABLE				
	(01044)	(01045)	(01046)	(01051)	(01054)	(UG/L)				
					(01055)	(UG/L)				
					(01056)	(UG/L)				
					(01059)	(AS NI)				
					(01067)	(AS AG)				
					(01077)	(AS ZN)				
						(01092)				

DEC												
02...	0	5300	5800	<1	30	270	240	<1	1	<1	50	
AUG	27...	--	11000	1300	60	--	350	170	--	18	--	210

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DI-			CARBON-			CHLORO-			ACE-	
	ANTI-	SELE-	CHLORO-	TETRA-	1,2-DI-		DI-				NAPHTH-
	MONY,	NIUM,	BROMO-	CHLO-	CHLORO-	BROMO-	BROMO-	CHLORO-			
TOTAL	TOTAL	METHANE	RIDE	ETHANE	FORM	METHANE	FORM	TOLUENE	BENZENE		
(UG/L)	(UG/L)	TOTAL	TOTAL	TOTAL	TOTAL	(UG/L)	TOTAL	TOTAL	YLINE		
AS SB)	AS SE)	(UG/L)									
(01097)	(01147)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)	(34030)		
									(34200)		

DEC												
02...	<1	<1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.0	<3.0	<5.0	
AUG	27...	1	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		BENZO B	BENZO K		BIS	BIS	BIS (2-	
		FLUOR-	FLUOR-	BENZO-	CHLORO-	CHLORO-	CHLORO-	N-BUTYL
DATE	ACE-NAPHTH-ENE	ANTHRA-CENE	AN-THENE	AN-THENE	A-PYRENE	ETHYL ETHER	ETHOXO METHANE	ISO-ETHER
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(34205)	(34220)	(34230)	(34242)	(34247)	(34273)	(34278)	(34283)
DEC								
02...	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0
AUG								
27...	--	--	--	--	--	--	--	<1.20
								<0.2

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		DI-		HEXA-			
		DIETHYL	METHYL	CHLORO-	INDENO		
DATE	CHRY-SENE	PHTHAL-ATE	PHTHAL-ATE	CYCLO-	(1,2,3-		
	TOTAL	TOTAL	TOTAL	HEXA-			
	(UG/L)	(UG/L)	(UG/L)	CHLORO-			
	(34320)	(34336)	(34341)	(34371)	(34376)	(34386)	(34403)
				ADIENE	ETHANE	PYRENE	PHTHAL-
				TOTAL	TOTAL	TOTAL	BROMIDE
				(UG/L)	(UG/L)	(UG/L)	(UG/L)
				(34381)	(34386)	(34396)	(34413)
DEC							
02...	<10.0	<5.0	<5.0	<3.0	<5.0	<5.0	<10.0
AUG							
27...	--	--	--	<0.2	--	--	--
							<0.2

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		N-							
		METHYL-	NITRO-	N-NITRO	N-NITRO				
DATE	METHYL-CHLO- RIDE	ENE CHLO- RIDE	SODI-N- PROPYL-	SODI- PHENY-	SODI- METHY-	CHLORO-			
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	PARA-			
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	CHLORO-			
	(34418)	(34423)	(34428)	(34433)	(34436)	(34447)	(34452)	(34461)	(34469)
						META	PHENAN-		
						THERENE	PYRENE		
						TOTAL	TOTAL		
						(UG/L)	(UG/L)		
						(34475)	(34488)		
DEC									
02...	--	<3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0
AUG									
27...	<0.2	<2.0	--	--	--	--	--	--	<0.2

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		1,1-DI-CHLORO- ETHANE	1,1,1- TRI- ENE	1,1,2- TRI- ENE	1,1,2,2- TETRA- ENE1,12	1,1,2,2- TETRA- ENE1,12	1,1,2,2- TETRA- ENE1,12	1,1,2,2- TETRA- ENE1,12	1,1,2,2- TETRA- ENE1,12
DATE	TOTAL	TOTAL	TOTAL	TOTAL	REC	TOTAL	TOTAL	TOTAL	TOTAL
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(34496)	(34501)	(34506)	(34511)	(34516)	(34521)	(34526)	(34536)	(34541)
DEC									
02...	<3.0	<3.0	<3.0	<3.0	<3.0	<10.0	<5.0	<5.0	<3.0
AUG									
27...	0.2	<0.2	<0.2	<0.2	<0.2	--	--	<0.20	<0.2
								--	--

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BENZENE	BENZENE	2-	DI-N-	OCTYL	2,4-DI-	2,4-DI-	
	1,2,5,6	1,3-DI-	1,4-DI-					
	-DIBENZ	1,3-DI-	CHLORO-	CHLORO-	ETHYL-	2-	2-	
	-ANTHRA	CHLORO-	WATER	WATER	VINYL-	NAPH-	CHLORO-	
	-CENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	THALENE	PHENOL	NITRO-
	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	PHTHAL-
	(UG/L)	ATE						
	(34556)	(34561)	(34566)	(34571)	(34576)	(34581)	(34586)	(34591)
DEC								
02...	<10.0	<3.0	<5.0	<5.0	<3.1	<5.0	<5.0	<10.0
AUG								
27...	--	<0.20	<0.20	<0.20	<0.1	--	--	--

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	4-	4-	DI-	PHENOL	NAPHTH-	ALENE		
	2,4,-	2,4,6-	CHLORO-					
	DI-	TRI-	2,6-DI-					
	NITRO-	NITRO-	CHLORO-	PHENYL	PHENYL			
	TOLUENE	PHENOL	PHENOL	TOLUENE	ETHER	ETHER	NITRO-	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	DINITRO	
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	ORTHO-	
	(34611)	(34616)	(34621)	(34626)	(3463E)	(34641)	FLUORO-	
DEC								
02...	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0	<30.0
AUG								
27...	--	--	--	--	--	--	--	0.5

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TRANS-	CIS	1,2-	BIS(2-	TRI-	HEXA-	SOLIDS,	
	1,3-DI-	1,3-DI-	PENTA-	DIBROMO	ETHYL	DI-N-	CHLORO-	SUM OF
	CHLORO-	CHLORO-	CHLORO-	ETHYL	HEXYL	BUTYL	HEXA-	CONSTIT-
	PROPENE	PROPENE	PHENOL	ENE	PHTHAL-	PHTHAL-	CHLORO-	TUENTS,
	TOTAL	DIS-						
	(UG/L)	SOLVED						
	(34699)	(34704)	(39032)	(39082)	(3910L)	(39110)	(39175)	(39180)
DEC								
02...	--	--	<30.0	--	<5.0	<5.0	<3.0	<5.0
AUG								
27...	<0.2	<0.2	--	<0.2	--	--	0.2	--

611220149503600 - NF CHESTER C BL 15TH AVE AT ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SOLIDS,	SOLIDS,	MERCURY	SPE-	HARD-	ALKA-	BICAR-	
	DIS-	DIS-	TOTAL	CFIC	NESS	LINITY,	CAR-	
	SOLVED	SOLVED	RECOV-	CON-	ALKA-	LINITY,	BONATE	
	(TONS)	(TONS)	ERABLE	PLING	DUCT-	NONCARB	CARBON-	
	PER	PER	(UG/L)	CONDI-	LAB	WAT	ATE	IT-FLD
	DAY	AC-FT)	AS HG)	TION	TOTAL	WH WAT	IT-FLD	IT-FLD
	(70302)	(70303)	(71900)	(72006)	(7712E)	(90095)	(90410)	(MG/L)
DEC								
02...	0.71	0.36	0.10	1.00	--	464	124	263
AUG								
27...	0.71	0.16	0.10	1.00	<0.1	154	41	119

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	LAT- I- TUDE		LONG- I- TUDE		MEDIUM CODE	SAMPLE TYPE	RECORD NUMBER	TEMPER- ATURE WATER		DIS- CHARGE, INST.	SPE- CIFIC DUCT- ANCE (US/CM)
										(DEG C) (00010)		
MAR 27...	--	61 12 54 N	149 49 17 W			9	9	97200990	3.0	0.59	275	
APR 10...	0900	61 12 54 N	149 49 17 W			9	9	97200991	2.0	--	270	
MAY 03...	1000	61 12 54 N	149 49 17 W			9	9	97200992	4.0	--	286	
JUN 06...	--	61 12 54 N	149 49 17 W			9	9	97200993	--	--	262	
SEP 21...	--	61 12 54 N	149 49 17 W			9	9	97200994	5.5	--	284	

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PH WATER		ALKA- LINITY		BICAR- BONATE		CAR- BONATE		NITRO- GEN, WATER		NITRO- GEN, WATER		PHOS- PHATE, ORTHO, PHOS- PHORUS TOTAL (MG/L)
	OXYGEN, DIS- (STAND- SOLVED (00300)	FIELD ARD (MG/L (00400)	WHOLE DIOXIDE (00405)	DIS- FIELD (00410)	TOT FIELD (00410)	WH FET (00440)	WH FET (00445)	FIELD (00445)	WH FET (00613)	DIS- SOLVED (00618)	SOLVED (00660)	SOLVED (00665)	
MAR 27...	--	7.3	11	96	120	0	0.001	1.10	0.0	0.050			
APR 10...	8.2	--	--	99	120	0	0.001	1.10	0.0	0.050			
MAY 03...	10.2	7.0	7.8	40	49	0	0.003	0.080	0.06	0.060			
JUN 06...	7.3	6.6	39	89	110	0	0.002	0.720	0.0	0.050			
SEP 21...	6.2	6.6	42	86	100	0	--	1.30	0.0	0.060			

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PHOS- PHORUS (MG/L (00671)		PHOS- PHORUS (MG/L (00672)		PHOS- PHORUS (MG/L (00677)		HARD- NESS + ORTHO TOTAL (00900)		MAGNE- SIIUM, CALCIUM DIS- SOLVED (00902)		SODIUM, SODIUM, DIS- SOLVED (00915)		AD- SORP- TION RATIO SODIUM PERCENT (00931) (00932)
	ORTHO, HYDRO- LYZABLE DIS- SOLVED DIS. (MG/L AS P) (00672)	HYDRO. + ORTHO DIS. (MG/L AS P) (00677)	NONCARB CACO3 (00900)	WH WAT CACO3 (00902)	DIS- PLD (00915)	SOLVED (00925)	SOLVED (00925)	SOLVED (00930)					
MAR 27...	0.00	--	--	110	14	35	5.4	--	--	--			
APR 10...	0.00	--	--	130	31	34	10	--	--	--			
MAY 03...	0.020	--	--	--	--	--	--	--	--	--			
JUN 06...	0.00	0.02	0.02	140	51	36	11	--	--	--			
SEP 21...	0.00	--	--	130	44	34	12	5.5	0.2	8			

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SILICA, DIS- SOLVED (MG/L AS) (00955)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BORON, TOTAL (UG/L AS B) (01022)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01046)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	
MAR 27...	--	--	20	30	--	--	30	40	4.9	0.00
APR 10...	0.70	--	20	30	0	--	80	30	4.9	0.00
MAY 03...	--	8.0	40	40	--	--	170	20	0.40	0.01
JUN 06...	--	13	50	30	--	--	20	30	3.2	0.01
SEP 21...	1.1	14	20	20	--	10	10	32	5.8	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT- I- TUDE	LONG- I- TUDE	MEDIUM	SAMPLE	RECORD	TEMPER- ATURE	LECTING	AGENCY	AGENCY	SPE- CIFIC
				CODE	TYPE	NUMBER	WATER	SAMPLE	COL- ANA-	LYZING	CON- DUCT-
							(DEG C)	(CODE)	(CODE)	SAMPLE	TREAT- MENT
							(00010)	(00027)	(00028)	(00095)	(00115)
DEC 02...	1100	61 12 54 N	149 49 17 W	9	9	98600414	--	1028	80020	364	1
AUG 27...	1015	61 12 54 N	149 49 17 W	9	9	98600979	9.5	1028	80020	250	1

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB FIELD (STAND- ARD UNITS) (00403)	ALKA- LINITY WAT WH NITRATE DIS- SOLVED SOLVED SOLVED (MG/L AS (00410)	NITRO- GEN, NO2+NO3 DIS- SOLVED SOLVED SOLVED (MG/L AS (00420)	PHOS- PHORUS ORTHO. DIS- SOLVED SOLVED (MG/L (MG/L AS N) (00620)	HARD- NESS CYANIDE DIS- SOLVED TOTAL (MG/L (MG/L AS P) (00631)	MAGNE- SIUM, CALCIUM DIS- SOLVED TOTAL (MG/L (MG/L AS (00671)	MAGNE- SIUM, SODIUM, DIS- SOLVED SOLVED SOLVED (MG/L (MG/L AS MG) (00720)	SODIUM, AL- SULF- TIN RATIO (AS NA) (00900)		
DEC 02...	--	8.2	93	2.00	2.00	<0.010	<0.010	160	42	13	11
AUG 27...	6.7	7.3	65	1.30	1.30	<0.010	--	110	29	8.4	8.9

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	POTAS- SODIUM PERCENT (00932)	CHLO- RIDE, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00945)	SILICA, DIS- SOLVED (UG/L AS SO4) (00950)	BERYL- LIUM, TOTAL (UG/L AS SIO2) (00955)	CADMIUM TOTAL (UG/L AS AS) (01002)	CHRO- MIUM, TOTAL (UG/L AS BE) (01012)	COPPER, TOTAL (UG/L AS CD) (01027)	IRON, TOTAL (UG/L AS CR) (01034)	IRON, TOTAL (UG/L AS FE) (01042)	
DEC 02...	13	1.5	41	23	<0.10	16	<1	<10	<1	8	1	140
AUG 27...	15	1.3	25	19	0.10	12	2	--	<1	14	10	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS PE (01045)	IRON, TOTAL DIS- RECOV- ERABLE (UG/L AS FE (01046)	LEAD, SUS- PENDED ERABLE (UG/L AS PB (01051)	MANGA- NESE, RECOV- ERABLE (UG/L AS MN (01054)	MANGA- NESE, DIS- SOLVED ERABLE (UG/L AS MN (01055)	MANGA- THAL- LIUM, SOLVED ERABLE (UG/L AS MN (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS TL (01059)	SILVER, TOTAL RECOV- ERABLE (UG/L AS NI (01067)	ZINI TOTAL RECOV- ERABLE (UG/L AS AG (01077)	ANTI- MONY, TOTAL TOTAL (UG/L AS SE (01097)	SELE- NIUM, TOTAL (UG/L (01147)		
	DEC 02...	510	370	<1	10	60	46	<1	1	<1	40	<1	<1
	27...	3900	160	<5	--	130	41	--	6	--	140	<1	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DI- CHLORO- BROMO- METHANE TOTAL (UG/L (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L (32103)	CHLORO- BROMO- FORM TOTAL (UG/L (32104)	CHLORO- BROMO- METHANE TOTAL (UG/L (32105)	CHLORO- FORM TOTAL (UG/L (32106)	CHLORO- TOLUENE TOTAL (UG/L (34010)	ACE- BENZENE TOTAL (UG/L (34030)	ACE- NAPHTH- YLENE TOTAL (UG/L (34200)	ACE- NAPHTH- ENE TOTAL (UG/L (34210)	BENZO B FLUOR- AN- THENE TOTAL (UG/L (34220)		
	DEC 02...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<5.0	<5.0	<5.0	<10.0
	27...	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	--	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BENZO K FLUOR- AN- THENE TOTAL (UG/L (34242)	BENZO- CHLORO- PYRENE TOTAL (UG/L (34247)	BIS 2- CHLORO- ETHER TOTAL (UG/L (34273)	BIS (2- CHLORO- METHANE TOTAL (UG/L (34278)	BIS (2- CHLORO- ISO- BENZYL TOTAL (UG/L (34283)	N-BUTYL PHTHAL- ATE TOTAL (UG/L (34292)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34301)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34311)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34320)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34331)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34341)	DIETHYL PHTHAL- ATE TOTAL (UG/L (34371)	
	DEC 02...	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<10.0	<5.0	<5.0	<3.0
	27...	--	--	--	--	--	--	<0.20	<0.2	--	--	--	<0.2

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	HEXA- CHLORO- CYCLO- FLUOR- ANTHENE TOTAL (UG/L (34376)	FLUOR- ENE ADIENE TOTAL (UG/L (34381)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L (34386)	INDENO (1,2,3- CD) PHORONE TOTAL (UG/L (34403)	METHYL- CHLO- BROMIDE TOTAL (UG/L (34408)	METHYL- CHLO- RIDE TOTAL (UG/L (34413)	METHYL- CHLO- RIDE TOTAL (UG/L (34418)	METHYL- CHLO- RIDE TOTAL (UG/L (34423)	METHYL- CHLO- RIDE TOTAL (UG/L (34433)	METHYL- CHLO- RIDE TOTAL (UG/L (34438)		
	DEC 02...	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<3.0	--	<3.0	<5.0	<5.0
	27...	--	--	--	--	--	--	<0.2	<0.2	<1.0	--	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PARA-	CHLORO-	TETRA-		TRI-	1,1-DI-		1,1,1-	1,1,1-	1,1,2,2	BENZOGH
	NITRO-	META	PHENAN-	CHLORO-	CHLORO-	1,1-DI-	CHLORO-	TRI-	TRI-	I PERYL	
	BENZENE	CRESOL	THRENE	PYRENE	ETHYL-	FLUORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	ENE1,12
TOTAL	TOTAL	TOTAL	PYRENE	ENE	METHANE	ETHANE	ENE	ETHANE	ETHANE	WAT UNF	BENZOP
(UG/L)	ERYLENE										
(34447)	(34452)	(34461)	(34469)	(34475)	(34488)	(34496)	(34501)	(34506)	(34511)	(34516)	(34521)

DEC												
02...	<5.0	<30.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<3.0	<10.0
AUG	27...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BENZO A	BENZENE	BENZENE		BENZENE		BENZENE	BENZENE	2-		
	ANTHRA	O-	1,2-	1,2,4-	1,2,5,6	1,3-DI-	1,3-DI-	1,4-DI-	CHLORO-	1-	
	ENE1,2-	CHLORO-	1,2-DI-	TRANSDI	TRI-	DIBENZ	1,3-DI-	CHLORO-	CHLORO-	CHLORO-	
TOTAL	REC	TOTAL	TOTAL	REC	TOTAL	TOTAL	REC	REC	REC	2-	
(UG/L)	CHLORO-										
(34526)	(34536)	(34541)	(34546)	(34551)	(34556)	(34561)	(34566)	(34571)	(34577)	(34581)	(34586)

DEC												
02...	<5.0	<5.0	<3.0	<3.0	<5.0	<10.0	<3.0	<5.0	<5.0	<1.0	<5.0	<5.0
AUG	27...	--	<0.20	<0.2	<0.2	--	--	<0.20	<0.20	<0.20	--	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DI-N-		2,4,-		2,4,6-		4-		4-		4,6-
	2-	OCTYL	2,4-DI-	2,4-DI-	2,4-DI-	DI-	TRI-	2,6-DI-	BROMO-	CHLORO-	DINITRO-
	NITRO-	PHTHAL-	CHLORO-	METHYL-	NITRO-	NITRO-	CHLORO-	NITRO-	PHENYL	PHENYL	NITRO-
TOTAL	PHENOL	ATE	PHENOL	PHENOL	TOLUENE	PHENOL	PHENOL	ETHER	PHENYL	PHENYL	ORTHO-
(UG/L)	(34591)	(34596)	(34601)	(34606)	(34611)	(34616)	(34621)	(34626)	(34636)	(34641)	(34646)
(34657)											

DEC												
02...	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<1.0	<20.0	<30.0
AUG	27...	--	--	--	--	--	--	--	--	--	--	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DI-		TRANS-		CIS		1,2-	BIS(2-			
	CHLORO-	PHENOL	1,3-DI-	1,3-DI-	PENTA-	DIBROMO-	ETHYL	DI-N-	OP-	CHLORO-	HEXA-
	DI-	FLUORO-	(C6H-	NAPHTH-	CHLORO-	CHLORO-	ETHYL-	HEXYL	BUTYL	VINYL	ETHYL-
TOTAL	METHANE	5OH)	ALENE	PROPENE	PROPENE	PHENOL	ENE	PHTHAL-	PHTHAL-	CHLORO-	CHLORO-
(UG/L)	(34668)	(34694)	(34696)	(34699)	(34704)	(39032)	(39082)	(39100)	(39110)	(39111)	(39130)
(34670)											

DEC												
02...	<3.0	<5.0	<5.0	--	--	<30.0	--	<5.0	<5.0	<1.0	<3.0	<5.0
AUG	27...	0.4	--	--	<0.2	<0.2	--	<0.2	--	--	<0.2	--

611254149491700 - NF CHESTER C AT AIRPORT HTS RD NR ANCHORAGE AK  
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SOLIDS, HEXA- CHLORO- BUT- ADIENE						SPE- CIFIC CON- DUCT- ANCE						HARD- NESS NONCARB		ALKA- LINITY, CARBON- ATE		BICAR- BONATE	
	SUM OF TOTAL (UG/L) (39702)	SOLIDS, CONSTI- TUENTS, TOTAL (70301)	SOLIDS, DIS- (TONS) (70303)	MERCURY SOLVED (AC-FT) (71900)	TOTAL RECOV- ERABLE (UG/L) (72006)	SAM- PLING CONDI- TION (UG/L) (77128)	STYRENE TOTAL (US/CM) (90095)	LAB AS (90410)	WH WAT TOT LAB AS (95902)	IT-FLD (MG/L - AS (99430)	IT-FLD (MG/L (99440)	CAR- BONATE (MG/L (99445)						
DEC 02...	<5.0	212	0.29	<0.10	1.00	--	378	93	65	93	113	0						
AUG 27...	--	149	0.20	<0.10	1.00	<0.2	263	65	--	66	80	0						

---

---

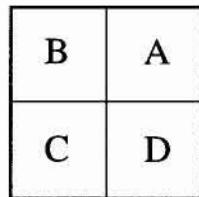
## **APPENDIX 2**

Well inventory and water-quality data for wells in the Merrill Field airport area

---

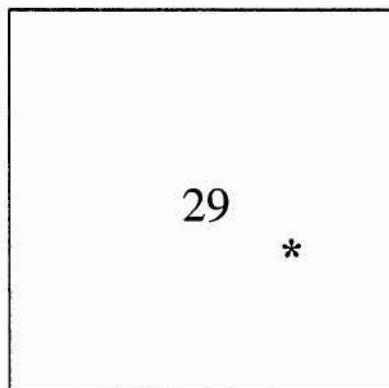
## EXPLANATION OF LOCAL NUMBER

The local well-numbering system is based on the rectangular subdivision of public lands. The first two letters indicate the well's position in reference to a base and meridian (first letter) and the quadrant formed by the intersection of the base line and the principal meridian (second letter), lettered counter-clockwise from the northeast corner:



The first three digits indicate the township in which the well is located, the next three digits, the range, and the last two digits, the section. For example, a well in south Anchorage numbered SB01200329DBAD1 016 is located in township 12 north, range 3 west, section 29. Letters following the section number indicate further subdivision: the quarter section, the quarter-quarter section, and so forth to the fourth section subdivision. Like the quadrants formed by the base and meridian, each succeeding subdivision is lettered counter-clockwise from the northeast corner. The number after the letters refers to the sequential listing of wells in the smallest subdivision. Thus, well SB01200329DBAD1 was the first well located in the southeast quarter (D) of the northeast quarter (A) of the northwest quarter (B) of the southeast quarter (D) of section 29. The number following the fourth section subdivision is a sequence number referring to the number of wells in that fourth section subdivision.

T. 12 N.



SB01200329DBAD1 016

Local Well Number	Date Well Constructed	Primary Use of Water	Owner	Depth of Well (m)	Static Water Level (m)	Date of Water Level Measurement	Type of Log Available
SB01300316BCCD1 004	08 01 56	domestic	STEVENSON R J	59	12.0	08 09 56	drillers
SB01300316CBDB1 005	---	commercial	WESTERN RADIO SV	---	---	---	---
SB01300317DADA1 012	05 06 69	unused	ANCHORAGE MUNICIPL	93	---	05 07 69	drillers
---	---	---	---	---	---	---	gamma ray
---	---	---	---	---	---	---	neutron
---	---	---	---	---	---	---	temperature
---	---	---	---	---	---	---	gamma-gamma
SB01300316CCBC2 006	06 10 74	unused	ANCHORAGE MUNICIPL	21	17.0	06 12 74	drillers
---	---	---	---	---	---	---	neutron
---	---	---	---	---	---	---	gamma-gamma
SB01300316CCBC3 006	06 11 74	unused	ANCHORAGE MUNICIPL	5	2.4	06 12 74	drillers
SB01300316CCBC1 006	06 06 74	unused	ANCHORAGE MUNICIPL	29	13.0	06 12 74	drillers
---	---	---	---	---	---	---	gamma ray
---	---	---	---	---	---	---	neutron
---	---	---	---	---	---	---	temperature
---	---	---	---	---	---	---	gamma-gamma
SB01300317DDDD1 002	10 01 85	unused	USGS ANCHORAGE	21	---	10 04 85	geologists
SB01300317DCDC1 011	10 02 85	unused	USGS ANCHORAGE	15.0	---	10 04 85	drillers
SB01300320ABBB1 001	08 01 55	public supply	ANCHORAGE MUNICIPL	107	4.6	01 18 56	drillers
---	---	---	---	---	5.1	---	---
SB01300320AAAC1 034	09 01 76	unused	ANCHORAGE MUNICIPL	8.4	---	10 15 76	drillers
							---

Local Well Number	Date Well Constructed	Primary Use of Water	Owner	Depth of Well (m)	Static Water Level (m)	Date of Water Level Measurement	Type of Log Available
SB01300320AADA1 003	10 09 85	unused	USGS ANCHORAGE	14	---	10 15 85	drillers
SB01300320ABDA1 051	---	unused	ANCH MUNICIPL (LANDFILL)	6	---	---	---
SB01300320ABCD1 053	---	unuscd	ANCH MUNICIPL (LANDFILL)	5	---	---	---
SB01300320ABDC1 052	---	unused	ANCH MUNICIPL (LANDFILL)	6	---	---	---
SB01300320ABDD1 033	08 17 76	unused	ANCHORAGE MUNICIPL	28	11.0	08 26 76	drillers
---	---	---	---	---	---	---	geologists
SB01300320ABDD2 033	08 28 76	unused	ANCHORAGE MUNICIPL	11	---	09 14 76	drillers
SB01300317CADD1 015	07 01 50	commercial	CITY ELECTRIC	10	---	09 14 50	drillers
SB01300317DBDA1 004	09 03 55	commercial	SPERNAK GEORGE	45	7.6	09 03 55	drillers
SB01300317DADA2 012	09 20 72	other	USGS	12	---	---	---
SB01300317CDDD2 010	07 28 67	---	USGS	30	---	07 29 67	drillers
---	---	---	---	---	---	---	gamma ray
---	---	---	---	---	---	---	neutron
---	---	---	---	---	---	---	gamma-gamma
SB01300317CDDD1 010	07 26 67	unused	USGS	30	---	07 27 67	drillers
---	---	---	---	---	---	---	gamma ray
---	---	---	---	---	---	---	neutron
---	---	---	---	---	---	---	gamma-gamma
SB01300317CDDD3 010	09 25 70	unused	USGS	9	---	10 05 70	drillers

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	LECTING	AGENCY	AGENCY	SPE-	CIFIC
		I-TUDE	I-TUDE				ATURE	SAMPLE	COL-	ANA-		
							WATER	(CODE	LYZING	RATE,	CON-	
							(DEG C)	NUMBER)	SAMPLE	INSTAN-	DUCT-	
							(00010)	(00027)	(CODE NUMBER)	TANEUS	ANCE	
								(00028)	(00028)	(G/M)	(US/CM)	
										(00059)	(00095)	

AUG  
26... 0930 61 12 23 N 149 50 39 W 6 9 98600529 4.5 1028 80020 8.0 420

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAMPLE	PH	PH	ALKA-	NITRO-	PHOS-	PHOS-	HARD-	MAGNE-	SODIUM	AD-
		WATER	WATER	LINITY	GEN,	PHATE,	PHORUS				
	WHOLE	WHOLE	WAT WH	NO2+NO3	ORTHO,	ORTHO,	TOTAL	DIS-	DIS-	DIS-	SORP-
	FIELD	FIELD	TOT FET	DIS-	DIS-	DIS-	DIS-	SOLVED	SOLVED	SOLVED	TION
	TREAT-	(STAND-	(STAND-	FIELD	SOLVED	SOLVED	SOLVED	(MG/L)	(MG/L)	(MG/L)	RATIO
	MENT	ARD	ARD	MG/L AS	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	
	(CODES)	UNITS)	UNITS)	CACO3	AS N)	AS P04)	AS P)	CACO3)	AS CA)	AS MG)	AS NA)
	(00115)	(00400)	(00403)	(00410)	(00631)	(00660)	(00671)	(00900)	(00915)	(00925)	(00930)
											(00931)

AUG  
26... 1 7.1 8.3 157 <0.100 0.15 0.050 190 42 21 17 0.5

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SODIUM	POTAS-	CHLO-	FLUO-	SILICA,	CADMIUM	CHRO-	IRON,	IRON,		
		SUUM,	RIDE,	SULFATE	RIDE,		DIS-			TOTAL	TOTAL
	DIS-	DIS-	DIS-	DIS-	SOLVED	ARSENIC	RECOV-	RECOV-	RECOV-		
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	RECOP-	RECOV-	RECOV-	DIS-		
	(MG/L	(MG/L	(MG/L	(MG/L	AS	ERABLE	ERABLE	ERABLE			
	PERCENT	AS K)	AS CL)	AS SO4)	AS F)	SIO2)	AS AS)	AS CD)	AS CR)	AS CU)	AS FE)
	(00932)	(00935)	(00940)	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)	(01042)	(01045)
											(01046)

AUG  
26... 16 2.4 19 51 0.10 13 23 <1 9 3 370 67

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	MANGA-		NICKEL,		ZINC,	DI-		CARBON-		CHLORO-	
	LEAD,	NESE,	MANGA-	NESE,	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,2-DI-	DI-
	TOTAL	TOTAL	TOTAL	TOTAL	RECOV-	RECOV-	MONY,	BROMO-	CHLO-	BROMO-	CHLORO-
	RECOV-	RECOV-	RECOV-	RECOV-	ERABLE	ERABLE	ERABLE	CHLO-	CHLORO-	CHLORO-	CHLORO-
	ERABLE	ERABLE	SOLVED	SOLVED	(UG/L	(UG/L	(UG/L	METHANE	RIDE	ETHANE	FORM
	(UG/L	(UG/L	(UG/L	(UG/L	AS PB)	AS MN)	AS MN)	AS NI)	(UG/L)	(UG/L)	METHANE
	AS PB)	AS MN)	AS MN)	AS NI)	(01051)	(01055)	(01056)	(01067)	(01092)	(01097)	(32101)
	(01051)	(01055)	(01056)	(01067)	(32101)	(32102)	(32103)	(32104)	(32104)	(32105)	(32106)

AUG  
26... <5 150 130 2 10 1 <0.2 0.2 <0.2 <0.2 <0.2 <0.2 0.2

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHLORO-		CHLORO-		ETHYL-	METHYL-	TETRA-	TRI-	1,1-DI-	
	TOLUENE	BENZENE	BENZENE	ETHANE	BENZENE	BROMIDE	CHLO-	CHLORO-	CHLORO-	CHLORO-
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	CHLO-	CHLORO-	FLUORO-	CHLORO-	
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	CHLO-	CHLORO-	CHLORO-	ETHYL-	
	(34010)	(34030)	(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34498)

AUG  
26... 0.3 <0.2 <0.20 <0.2 <0.2 <0.2 <0.2 66 <0.2 0.3 <0.2 <0.2

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	1,1,1-	1,1,2-	ETHANE,	BENZENE		BENZENE	BENZENE	2-	DI-		
	TRI-	TRI-	1,1,2,2	O-	1,2-	TRANSDI	1,3-DI-	1,4-DI-	CHLORO-	CHLORO-	TRANS-
	CHLORO-	CHLORO-	CHLORO-	CHLORO-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-	ETHYL-	DI-	1,3-DI-
	ETHANE	ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	CHLORO-
TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	METHANE	PROPENE
(UG/L)											
(34506)	(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34668)	(34699)

AUG  
26... <0.2 <0.2 <0.2 <0.20 <0.2 <0.2 <0.20 <0.20 <0.20 <0.20 <0.2 0.2 <0.2

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CIS	1,2-	TRI-	SOLIDS,		ELEV.		DEPTH	PUMP		
	1,3-DI-	DIBROMO	VINYL	CHLORO-	SUM OF SOLIDS,	MERCURY	OF LAND	TO TOP	OR FLOW		
	CHLORO-	ETHYL-	CHLO-	ETHYL-	CONSTITUENTS,	DIS-	TOTAL SURFACE	DEPTH OF	PERIOD		
	PROPENE	ENE	RIDE	ENE	DIS-	(TONS ERABLE)	RECOV-	DATUM OF			
TOTAL	TOTAL	TOTAL	TOTAL	SOLVED	PER	(UG/L ERABLE)	DATA	WATER-			
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(MG/L)	(AC-FT)	(AS HG)	(FT.)	PRIOR			
(34704)	(39082)	(39175)	(39180)	(70301)	(70303)	(71900)	(72000)	(72001)	(72002)	(72004)	(72005)

AUG  
26... <0.2 <0.2 <0.2 0.4 260 0.35 <0.10 85.6 91 89 55 1

611223149503901 - SB01300320ABDD1 033 CITY LANDFILL 4  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAM-	DEPTH	DEPTH	DEPTH		SPE-	ALKA-				
	PLING	TO TOP	TO BOT-	BELOW		CIPIC	ALKA-	LINITY,	BICAR-	CAR-	
	CONDI-	OF	SAMPLE	TOM OF	LAND	CON-	DUCT-	CARBON-	BONATE	BONATE	
	TION	WELL,	INTER-	INTER-	(WATER	STYRENE	ANCE	(MG/L	IT-FLD	IT-FLD	
	TOTAL	VAL	VAL	LEVEL)	TOTAL	LAB	AS	(MG/L	(MG/L	(MG/L	
	(FEET)	(FT)	(FT)	(FEET)	(UG/L)	(US/CM)	CACO3)	-	AS	AS	
	(72006)	(72008)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99430)	(99440)	(99445)

AUG  
26... 1.00 91.00 91 91 6.02 <0.2 449 157 157 191 0

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-	LONG-			AGENCY	AGENCY				
		I-	I-	MEDIUM	SAMPLE	RECORD	TEMPER-	LECTING	LYZING	FLOW	CIPIC
		TUDE	TUDE	CODE	TYPE	NUMBER	ATURE	SAMPLE	SAMPLE	INSTAN-	DUCT-
					(DEG C)	(NUMBER)	(CODE)	TANEOUS			
					(00010)	(00027)	(00028)	(G/M)	(US/CM)		
								(00059)	(00095)		

AUG  
26... 1035 61 12 23 N 149 50 39 W 6 9 98600535 5.0 1028 80020 2.0 850

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TREAT-	PH	PH	ALKA-	NITRO-	PHOS-				
		WATER	WATER	LINITY	GEN.	PHORUS	HARD-		MAGNE-	SODIUM
		WHOLE	WHOLE	WAT WH	NO2+NO3	ORTHO,	NESS	CALCIUM	SIUM,	SODIUM,
	SAMPLE	FIELD	LAB	TOT FET	DIS-	SOLVED	(MG/L	(MG/L	SORP-	
	TREAT-	(STAND-	(STAND-	FIELD	DIS-	SOLVED	(MG/L	(MG/L	TION	
	MENT	ARD	ARD	MG/L AS	(MG/L	AS	(MG/L	(MG/L		
	(CODES)	UNITS)	UNITS)	CACO3	AS N)	AS P)	CACO3)	AS CA)	SODIUM	
	(00115)	(00400)	(00403)	(00410)	(00631)	(00671)	(00900)	(00915)	PERCENT	
									(00931)	
									(00932)	

AUG  
26... 1 6.8 7.1 217 <0.100 <0.010 290 82 20 59 2 30

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	POTAS-	CHLO-	FLUO-	SILICA,	CADMIUM	CHRO-	IRON,	LEAD,					
	SIUM,	RIDE,	SULFATE	RIDE,	DIS-	TOTAL			MUM,	TOTAL	TOTAL	IRON,	TOTAL
DIS-	DIS-	DIS-	DIS-	SOLVED	ARSENIC	RECOV-	RECOV-	RECOV-	RECOV-	DIS-	RECOV-		
SOLVED	SOLVED	SOLVED	SOLVED	(MG/L)	(MG/L)	TOTAL	ERABLE	ERABLE	ERABLE	SOLVED	ERABLE		
(MG/L)	(MG/L)	(MG/L)	(MG/L)	(AS K)	(AS CL)	AS	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)		
(00935)	(00940)	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)	(01042)	(01045)	(01046)	(01051)		
AUG	26...	5.1	140	24	<0.10	28	130	<1	29	33	14000	11000	<5

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	MANGA-	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	CHLORO-	DI-				
	NESE,	NESE,	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,2-DI-	DI-			
RECOV-	DIS-	RECOV-	RECOV-	RECOV-	MONY,	BROMO-	CHLO-	CHLORO-	CHLORO-			
ERABLE	SOLVED	ERABLE	ERABLE	ERABLE	TOTAL	METHANE	RIDE	ETHANE	BROMO-			
(UG/L)	METHANE											
AS MN)	AS MN)	AS NI)	AS ZN)	AS SB)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	FORM			
(01055)	(01056)	(01067)	(01092)	(01097)	(32101)	(32102)	(32103)	(32104)	(32105)			
AUG	26...	3000	3000	13	30	4	<0.2	<0.2	<0.2	<0.2	<0.2	0.7

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHLORO-	CHLORO-	ETHYL-	METHYL-	METHYL-	TETRA-	TRI-	1,1-DI-	1,1,1-			
	BENZENE	BENZENE	ETHANE	BENZENE	BROMIDE	CHLO-	CHLORO-	CHLORO-	CHLORO-			
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	CHLO-	ENE	CHLORO-	1,1-DI-	TRI-			
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	RIDE	RIDE	ETHYL-	CHLORO-	CHLORO-			
(34030)	(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)			
AUG	26...	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ETHANE,	BENZENE	BENZENE	BENZENE	BENZENE	2-	DI-	CHLORO-	TRANS-	CIS		
	1,1,2-	1,1,2,2	O-	1,2-	1,3-DI-	1,4-DI-	CHLORO-	CHLORO-	ETHYL-	DI-	1,3-DI-	
TRI-	TETRA-	CHLORO-	1,2-DI-	TRANS	DI-	CHLORO-	CHLORO-	FLUORO-	CHLORO-	CHLORO-		
CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	VINYL-	FLUORO-	CHLORO-		
ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	METHANE	PROPENE		
TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL		
(UG/L)												
(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34668)	(34699)		
AUG	26...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.2	0.7	<0.2	<0.2

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SOLIDS,				ELEV.			DEPTH		PUMP		
	1,2-	TRI-	SUM OF	SOLIDS,	MERCURY	OF LAND	TO BOT-	OR FLOW	TO BOT-	OR FLOW		
DIBROMO	VINYL	CHLORO-	CONSTI-	DIS-	TOTAL	SURFACE	DEPTH	TOM OF	PERIOD			
ETHYL-	CHLO-	ETHYL-	TUENTS,	SOLVED	RECOV-	DATUM	OF	WATER-	PRIOR			
ENE	RIDE	ENE	DIS-	(TONS	ERABLE	(FT.	HOLE,	BEARING	TO SAM-			
ENE	RIDE	ENE	DIS-	AC-FT)	AS HG)	(UG/L)	ABOVE	TOTAL	PLING			
TOTAL	TOTAL	TOTAL	SOLVED	PER	NGVD)	(72000)	(72001)	ZONE	(MIN)			
(UG/L)	(UG/L)	(UG/L)	(MG/L)	(70303)	(71900)	(72000)	(72001)	(72003)	(72004)			
(39082)	(39175)	(39180)	(70301)						(72005)			
AUG	26...	<0.2	0.9	<0.2	504	0.69	<0.10	86.0	45	35	60	1

611223149503902 - SB01300320ABDD2 033 CITY LANDFILL 5  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

		DEPTH	DEPTH	DEPTH	SPE-	ALKA-					
		TO TOP	TO BOT-	BELOW	CIFIC	LINITY	CARBON-	BICAR-			
SAM-	DEPTH	OF	TOM OF	LAND	CON-	LINEITY	BONATE	BONATE			
PLING	OF	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB	ATE	IT-FLD			
CONDI-	WELL,	INTER-	INTER-	(WATER	STYRENE	ANCE	(MG/L	IT-FLD			
DATE	TION	TOTAL	VAL.	VAL	LEVEL)	TOTAL	LAB	(MG/L			
		(FEET)	(FT)	(FT)	(FEET)	(UG/L)	(US/CM)	AS			
	(72006)	(72008)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99430)	(99440)	(99445)

AUG	26...	1.00	35.00	32	35	5.53	<0.2	831	214	221	269	0
-----	-------	------	-------	----	----	------	------	-----	-----	-----	-----	---

611227149504501 - SB01300320ABDC1 052 CITY LANDFILL 14  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

JUN 23... 0835 61 12 27 N 149 50 45 W 6 9 98700238 4.0 1028 80020

611227149504501 - SB01300320ABDC1 052 CITY LANDFILL 14  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SPE- CIFIC		DI- CHLORO-		CARBON- TETRA-		1,2-DI- CHLORO-		CHLORO- DI-		CHLORO- BROMO-		CHLORO- BROMO-		CHLORO- BENZENE								
	DUCT-	ANCE	CON-	BROMO-	CHLO-	CHLORO-	BROMO-	FORM	METHANE	FORM	TOLUENE	BENZENE	BENZENE	DATE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL		
	(US/CM)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(00095)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)	(34030)	(34301)

JUN 23 1180 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 0.2 <0.2 <0.2 <0.2 <0.2

611227149504501 - SB01300320ABDC1 052 CITY LANDFILL 14  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE				METHYL-	TETRA-	TRI-	1,1-DI-		1,1,1-	
	CHLORO-	ETHYL-	METHYL-	CHLO-	CHLO-	ETHYL-	FLUORO-	CHLORO-	ETHYL-	CHLORO-
	ETHANE	BENZENE	BROMIDE	RIDE	RIDE	ENE	METHANE	ETHANE	ENE	ETHANE
	TOTAL									
	(UG/L)									
	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)	(34501)	(34506)

611227149504501 - SB01300320ABDC1 052 CITY LANDFILL 14  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

	ETHANE, BENZENE				BENZENE			BENZENE		2-	DI-
1,1,2-	1,1,2,2	O-		1,2-	TRANS DI	1,3-DI-	CHLORO-	1,4-DI-	CHLORO-	CHLORO-	
TRI-	TETRA-	CHLORO-	WATER	1,2-DI-	CHLORO-	CHLORO-	CHLORO-	ETHYL-	DI-		
CHLORO-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	WATER	WATER	VINYL-	FLUORO-		
ETHANE	WAT	UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	METHANE	
DATE	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
	(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34668)	

JUN  $\leq 0.2$   $\leq 0.2$   $\leq 0.20$   $\leq 0.2$   $\leq 0.2$   $\leq 0.20$   $\leq 0.20$   $\leq 0.20$   $\leq 0.2$  4.6

61122714501 - SB01300320ABDC1 052 CITY LANDFILL 14  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TRANS-	CIS	1,2-	TRI-	OF LAND	ELEV.	DEPTH	YCLENE
	1,3-DI-	1,3-DI-	DIBROMO	VINYL	CHLORO-	SURFACE	DEPTH	
CHLORO-	CHLORO-	ETHYL-	CHLO-	ETHYL-	DATUM	OF	SURFACE	WATER
PROPENE	PROPENE	ENE	RIDE	ENE	(FT.)	WELL,	(WATER	STYRENE
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	ABOVE	TOTAL	LEVEL)	TOTAL
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(FT.)	(FEET)	(FEET)	REC
(34699)	(34704)	(39082)	(39175)	(39180)	(72000)	(72008)	(72019)	(77128)
								#1551)
JUN								
23...	<0.2	<0.2	<0.2	1.9	<0.2	85.1	20.00	6.50
								<0.2
								<0.20

611228145013901 - SB01300320ABDA1 051 CITY LANDFILL 13  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	AGENCY	AGENCY
		I-	I-					CODE	TYPE
DATE	TIME	TUDE	TUDE				WATER	(CODE	SAMPLE
							(DEG C)	NUMBER)	CODE
							(00010)	(00027)	NUMBER)
JUN									
23...	1021	61 12 18 N	149 50 39 W		6	9	98700243	4.5	1028

611228145013901 - SB01300320ABDA1 051 CITY LANDFILL 13  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SPE-	DI-	CARBON-	CHLORO-							
	CIFIC	CHLORO-	TETRA-	1,2-DI-	DI-	CHLORO-	CHLORO-	CHLORO-	CHLORO-		
CON-	BROMO-	CHLO-	CHLORO-	BROMO-	BROMO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-		
DUCT-	METHANE	RIDE	ETHANE	FORM	METHANE	FORM	TOLUENE	BENZENE	BENZENE		
ANCE	TOTAL										
(US/CM)	(UG/L)										
(00095)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)	(34030)	(34301)		
JUN											
23...	820	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		

611228145013901 - SB01300320ABDA1 051 CITY LANDFILL 13  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	METHYL-				METHYL-	TETRA-	TRI-	1,1-DI-	1,1,1-
	CHLORO-	ETHYL-	METHYL-	CHLO-	ENE	CHLORO-	CHLORO-	CHLORO-	CHLORO-
ETHANE	BENZENE	BROMIDE	RIDE	RIDE	ENE	METHANE	ETHANE	ENE	ETHANE
TOTAL									
(UG L)									
(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)	(34501)	(34506)
JUN									
23...	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

611228145013901 - SB01300320ABDA1 051 CITY LANDFILL 13  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	ETHANE,	BENZENE	BENZENE				BENZENE	BENZENE	2-	2-
	1,1,2-	1,1,2,1	O-	1,2-	1,2-DI-	TRANS DI	1,3-DI-	CHLORO-	CHLORO-	CHLORO-
TRI-	TETRA-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	CHLORO-	ETHYL-	CHLORO-	
CHLORO-	CHLORO-	WATER								
ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	ETHANE	
TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	
(UG L)	(UG L)	(UG L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34588)	
JUN										
23...	<0.2	<0.1	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	

611228149503901 - SB01300320ABDA1 051 CITY LANDFILL 13  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TRANS-	CIS	1,2-	ELEV.			DEPTH		XYLENE WATER STYRENE UNFLTRD
	1,3-DI-	1,3-DI-	DIBROMO	VINYL	CHLORO-	SURFACE	DEPTH	LAND OF SURFACE	
	CHLORO-	CHLORO-	ETHYL-	CHLO-	ETHYL-	DATUM	(FT.)	WELL, (WATER LEVEL)	
TOTAL	TOTAL	TOTAL	TOTAL	ENE	ABOVE	TOTAL	TOTAL (FEET)	TOTAL (FEET)	TOTAL (UG/L)
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	NGVD	(72000)	(72008)	(72019)	(77128)
(34699)	(34704)	(39082)	(39175)	(39180)					(81551)

JUN  
23... <0.2 <0.2 <0.2 <0.2 <0.2 86.7 20.00 6.57 <0.2 <0.20

611228149505401 - SB01300320ABCD1 053 CITY LANDFILL 15  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	LAT-	LONG-	TEMPER-			AGENCY		
		I-	I-	MEDIUM	SAMPLE	RECORD	ATURE	LECTING	AGENCY
		TUDE	TUDE	CODE	TYPE	NUMBER	WATER	SAMPLE	COL- ANA-
					(DEG C)	(CODE (00010))	LYZING		
					(00027)	(00028)	SAMPLE (CODE (00028))		

JUN  
23... 0925 61 12 28 N 149 50 54 W 6 9 98700241 2.0 1028 80020

611228149505401 - SB01300320ABCD1 053 CITY LANDFILL 15  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SPE-	DI-	CARBON-	CHLORO-			CHLORO- BENZENE TOTAL (UG/L)		
	CIFIC	CHLORO-	TETRA-	1,2-DI-	DI-				
	CON-	BROMO-	CHLO-	CHLORO-	BROMO-	CHLORO-			
DUCT-	METHANE	RIDE	ETHANE	FORM	METHANE	FORM	TOLUENE	BENZENE	CHLORO- BENZENE TOTAL (UG/L)
ANCE	TOTAL	TOTAL	TOTAL (UG/L)						
(US/CM)	(UG/L)	(UG/L)	(UG/L)						
(00095)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)	(34030)	(34301)

JUN  
23... 560 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 0.5 <0.20

611228149505401 - SB01300320ABCD1 053 CITY LANDFILL 15  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	METHYL-			TETRA-			1,1-DI-			1,1,1-	
	CHLORO-	ETHYL-	METHYL-	CHLO-	CHLO-	ETHYL-	FLUORO-	CHLORO-	ETHYL-	CHLORO-	TRI-
	ETHANE	BENZENE	BROMIDE	RIDE	RIDE	ENE	METHANE	ETHANE	ENE	ETHANE	ETHANE
TOTAL											
(UG/L)											
(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)	(34501)	(34506)		

JUN  
23... <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2

611228149505401 - SB01300320ABCD1 053 CITY LANDFILL 15  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	ETHANE,	BENZENE	1,2-			1,3-DI-			1,4-DI-		DI-	
	1,1,2-	1,1,2,2	O-	1,2-DI-	TRANSDI	1,3-DI-	CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	
	TRI-	TETRA-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	WATER	VINYL-	FLUORO-	DI-	
CHLORO-	CHLORO-	WATER	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	METHANE		
ETHANE	WAT UNF											
TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL		
(UG/L)												
(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34668)			

JUN  
23... <0.2 <0.2 <0.20 <0.2 <0.2 <0.20 <0.20 <0.20 <0.20 <0.2 <0.2

611228149505401 - SB01300320ABCD1 053 CITY LANDFILL 15  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TRANS-	CIS	1,2-	ELEV.			DEPTH		XYLENE
	1,3-DI-	1,3-DI-	DIBROMO	VINYL	CHLORO-	SURFACE	DEPTH	LAND	
	CHLORO-	CHLORO-	ETHYL-	CHLO-	ETHYL-	DATUM	OF	SURFACE	WATER
	PROPENE	PROPENE	ENE	RIDE	ENE	TOTAL	(FT.)	WELL,	STYRENE
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	ABOVE	(FEET)	(WATER LEVEL)	TOTAL REC
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(NGVD)	(FEET)	(FEET)	(UG/L)
	(34699)	(34704)	(39082)	(39175)	(39180)	(72000)	(72008)	(72019)	(77128)
									(81551)

JUN  
23... <0.2 <0.2 <0.2 <0.2 <0.2 78.6 15.00 0.85 <0.2 <0.20

611230149502301 - SB01300320AAAC1 034  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	CON-	SAMPLE	ALKA-
		I-TUDE	I-TUDE				ATURE	DUCT-	TREAT-	LINITY
							(DEG C)	ANCE	MENT	WAT WH
							(00010)	(US/CM)	(CODES)	FIELD
							(00095)	(00115)	(00410)	MG/L AS
										CACO3

OCT  
15... 1440 61 12 30 N 149 50 23 W 6 9 97700600 4.5 340 1 153

611230149502301 - SB01300320AAAC1 034  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BICAR-	HARD-	MAGNE-	SODIUM	CHLO-	SULFATE	ARSENIC	
	BONATE	HARD-						NESS
	WATER	NESS	NONCARB	CALCIUM	DIS-	DIS-	DIS-	
	WH FET	TOTAL	WH WAT	DIS-	DIS-	SORP-	DIS-	
	FIELD	TOT FLD	SOLVED	SOLVED	SOLVED	TION	SOLVED	
	MG/L AS	AS	MG/L AS	(MG/L	(MG/L	RATIO	MG/L	DIS-
	HCO3	CACO3	CACO3	AS CA)	AS MG)	(AS NA)	(AS CL)	AS SO4)
	(00440)	(00900)	(00902)	(00915)	(00925)	(00930)	(00931)	(00945)
								(01000)

OCT  
15... 190 19 0 3.9 2.2 68 7 3.9 12 1

611230149502301 - SB01300320AAAC1 034  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ELEV.			DEPTH			DEPTH	
	IRON,	MANGA-	OF LAND	DEPTH	SAM-	DEPTH	TO TOP	TO BOT-
	ARSENIC	DIS-	DIS-	DATUM	OF	PLING	OF	OF
	TOTAL	SOLVED	SOLVED	(FT.)	HOLE,	SAMPLE	SAMPLE	SAMPLE
	(UG/L)	(UG/L)	(UG/L)	ABOVE	TOTAL	CONDIT-	WELL,	INTER-
	AS AS)	AS FE)	AS MN)	NGVD)	SOURCE	TION	TOTAL	INTER-
	(01002)	(01046)	(01056)	(72000)	(72001)	(72005)	(72006)	(72008)
								(72015)
								(72016)

OCT  
15... 16 200 20 87.5 34 32 15.00 17.50 28 28

611232149505801 - SB01300320ABBB1 001  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	RATE,
	I-TUDE	I-TUDE				ATURE	INSTAN-
						(DEG C)	(G/M)
						(00010)	(00059)

APR  
20... 1330 61 12 32 N 149 50 58 W 6 9 97800664 4.5 1100

611232149505801 - SB01300320ABBB1 001  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SPE- CIFIC		PH WATER	CARBON WHOLE DIOXIDE	ALKA- LINITY WAT WH	BICAR- BONATE WATER	CAR- BONATE WATER	ELEV. OF LAND SURFACE	DEPTH
	CON- DUCT-	SAMPLE TREAT- (STAND- MENT)	FIELD DIS- SOLVED	TOT FET FIELD	WH FET FIELD	WH FET FIELD	DATUM (FT.)	OF HOLE,	
	(US/CM) (00095)	(CODES) (00115)	ARD (MG/L)	MG/L AS AS CO2	MG/L AS CACO3	MG/L AS HC03	MG/L AS CO3	ABOVE NGVD	TOTAL (FEET)
				(00400)	(00405)	(00410)	(00440)	(00445)	(72000)
									(72001)

APR  
20... 190 2 6.9 21 86 100 0 91.8 452

611232149505801 - SB01300320ABBB1 001  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DEPTH TO TOP OF WATER- BEARING		DEPTH TO BOT- TOM OF WATER- BEARING	PUMP OR FLOW PERIOD PRIOR	SAM- PLING		DEPTH OF SAMPLE	DEPTH TO TOP OF SAMPLE	DEPTH
	ZONE (FT)	ZONE (FT)	TO SAM- PLING	SAMPLE SOURCE	CONDI- TION	WELL, TOTAL (FEET)	INTER- VAL (FT)	INTER- VAL (FT)	
	(72002)	(72003)	(72004)	(72005)	(72006)	(72008)	(72015)	(72016)	

APR  
20... 268 338 270 1 8.00 351.00 296 351

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT- I- TUDE		LONG- I- TUDE		MEDIUM CODE	SAMPLE TYPE	RECORD NUMBER	TEMPER- ATURE (DEG C)		LECTING SAMPLE (CODE NUMBER)	LYZING SAMPLE (CODE NUMBER)	AGENCY COL- ANA- (00010)	AGENCY INSTAN- (00027)	SPE- CIFIC (00059)

AUG  
25... 1100 61 12 43 N 149 50 07 W 6 9 98600531 4.5 1028 80020 7.5 263

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PH WATER		PH WATER	ALKA- LINITY	NITRO- GEN, NO2+NO3	PHOS- PHATE, ORTHO,	PHOS- PHORUS ORTHO,	HARD- NESS	MAGNE- SIUM,	SODIUM, AD-	SODIUM	
	SAMPLE FIELD	TREAT- (STAND- MENT)	FIELD LAB	TOT FET (STAND- MENT)	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	TOTAL (MG/L)	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	SORP-
	(CODES) (00115)	MENT (UNITS)	ARD (UNITS)	ARD (00400)	MG/L AS CACO3	(MG/L)	(MG/L)	AS	(MG/L)	(MG/L)	(MG/L)	TION (00931)
					AS N)	AS PO4)	AS P)	CACO3)	AS CA)	AS MG)	AS NA)	
					(00631)	(00660)	(00671)	(00900)	(00915)	(00925)	(00930)	

AUG  
25... 1 7.8 8.0 125 <0.100 0.18 0.060 91 23 8.2 24 1

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	POTAS- SIUM, DIS- SOLVED		CHLO- RIDE, DIS- SOLVED	SULFATE	FLUO- RIDE, DIS- SOLVED	SILICA, ARSENIC	CADMIUM TOTAL	MIUM, TOTAL	COPPER, TOTAL	IRON, TOTAL	IRON,
	SODIUM (MG/L)	PERCENT AS K)	(AS CL)	AS SO4)	AS F)	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)
	(00932)	(00935)									

AUG  
25... 36 2.6 4.8 9.4 0.30 12 36 <1 10 10 2400 1000

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	MANGA-												CHLORO-											
	LEAD,	NESE,	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	1,2-DI-	DI-	BROMO-	CHLORO-	FORM	AS PB)	AS MN)	AS NI)	AS ZN)	MONY,	BROMO-	CHLO-	CHLORO-	BROMO-	BROMO-	CHLORO-	
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(01051)	(01055)	(01056)	(01067)	(01092)	(01097)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)

AUG	25...	26	250	230	7	30	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	METHYL-												TETRA-												TRI-												1,1-DI-											
	TOLUENE	BENZENE	BENZENE	CHLORO-	CHLORO-	ETHYL-	METHYL-	CHLO-	CHLO-	ENE	CHLORO-	CHLORO-	1,1-DI-	CHLORO-	FLUORO-	CHLORO-	1,1-DI-	CHLORO-	DI-	CHLORO-	ETHYL-																											
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)																										

AUG	25...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ETHANE, BENZENE												BENZENE BENZENE												2- DI-											
	1,1,1-	1,1,2-	1,1,2,2	O-	1,2-	1,2-DI-	TRANSDI	1,3-DI-	1,3-DI-	1,4-DI-	CHLORO-	CHLORO-	CHLORO-	DI-	1,3-DI-	CHLORO-	FLUORO-	CHLORO-	1,1-DI-	CHLORO-	TRANS-															
TRI-	TRI-	TETRA-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER	ETHYL-	ETHYL-	ENE	METHANE	ETHANE	ETHANE	ETHYL-	CHLORO-																
CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD															
ETHANE	ETHANE	ETHANE	ETHANE	ETHANE	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC	REC															
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)															

AUG	25...	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SOLIDS, SUM OF SOLIDS, MERCURY												ELEV. OF LAND SURFACE												DEPTH TO TOP												PUMP OR FLOW											
	CIS	1,2-	TRI-	CHLORO-	CHLORO-	CONSTIT-	DIS-	TOTAL	SOLVED	RECOV-	DATUM	DEPTH	OF	WATER-	PRIOR	TO SAM-	PLING	TO SAM-	PLING	TO SAM-	PLING																											
1,3-DI-	1,2BROMO	VINYL	CHLORO-	CHLORO-	TUENTS,	SOLVED	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-																																	
CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-																											
PROPENE	ENE	RIDE	ENE	ENE	DIS-	(TONS)	PER	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)																										
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	SOLVED	PER	(UG/L)	AC-FT)	AS HG)	NGVD)	(FEET)	ABOVE	TOTAL	BEARING	TO SAM-	PLING																																
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(MG/L)	AC-FT)	(70301)	(70303)	(71900)	(72000)	(72001)	(72000)	(72001)	(72002)	(72004)	(72005)	(72002)	(72004)	(72002)	(72004)	(72002)	(72004)																										

AUG	25...	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	160	0.22	0.30	101	95	91	45	1

611243149500701 - SB01300316CCBC1 006 CITY LANDFILL 1  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DEPTH TO TOP TO BOT- DEPTH												SPE- CIFIC												ALKA- LINITY												DEPTH TO TOP												PUMP OR FLOW											
	SAV-	DEPTH	OF	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB	ATE	CON-	LINITY	CARBON-	BICAR-	CON-	LINITY	CARBON-	BONATE	CON-	LINITY	CARBON-	BONATE	CON-	LINITY																																					
PLING	OF	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB	ATE	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD	IT-FLD																																						
COND-	WELL,	INTER-	INTER-	(WATER	STYRENE	ANCE	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)																																											
DATE	TION	TOTAL	VAL	VAL	LEVEL)	TOTAL	LAB	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS																																					
(72015)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99430)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)	(99440)																																						

AUG	25...	1.00	95.00	95	95	21.20	<0.2	273	126	124	152	0

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	LECTING	AGENCY	AGENCY	SPE-					
		I-TUDE	I-TUDE						CODE	TYPE	NUMBER	ATURE	WATER	COL-	ANA-	FLOW
											(DEG C)	(NUMBER)	(CODE)	(NUMBER)	INSTAN-	CON-
											(00010)	(00027)	(00028)	(00059)	TANEOUS	DUCT-
															(G/M)	(US/CM)

AUG 25... 1230 61 12 43 N 149 50 07 W 6 9 98600532 5.0 1028 80020 7.5 256

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAMPLE	PH	PH	ALKA-	NITRO-	PHOS-	PHOS-	MAGNE-	SODIUM	AD-										
		WATER	WATER	LINITY	GEN.	PHATE,	PHORUS				HARD-	SIUM,	SODIUM,	SORP-						
											WHOLE	WHOLE	WAT WH	NO2+NO3	ORTHO,	ORTHO,	NESS	CALCIUM	DIS-	DIS-
											FIELD	LAB	TOT FET	DIS-	DIS-	TOTAL	DIS-	SOLVED	SOLVED	SOLVED
											TREAT-	(STAND-	FIELD	SOLVED	SOLVED	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
											MENT	ARD	ARD	(MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
											(CODES)	UNITS)	UNITS)	CACO3	AS N)	AS P04)	AS P)	CACO3)	AS CA)	AS MG)
											(00115)	(00400)	(00403)	(00410)	(00631)	(00660)	(00671)	(00900)	(00915)	(00925)

AUG 25... 1 8.3 8.1 132 <0.100 0.18 0.060 90 23 7.9 23 1

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SODIUM	POTAS-	CHLO-	FLUO-	SILICA,	CADMIUM	CHRO-	IRON,	IRON,	IRON,										
		SIUM,	RIDE,		SULFATE		RIDE,				DIS-	TOTAL	TOTAL	TOTAL	RECOV-	RECOV-				
											DIS-	DIS-	DIS-	SOLVED	SOLVED	ARSENIC	RECOV-	RECOV-	DIS-	
											SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L)	RECOV-	RECOV-	SOLVED	
											(00932)	(00935)	(00940)	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)	(01042)

AUG 25... 35 2.4 4.2 9.6 0.30 12 38 <1 28 10 8500 700

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	LEAD,	MANGA-	NESE,	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	CHLORO-	DI-										
		TOTAL		TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-			1,2-DI-	BROMO-	BROMO-	CHLORO-						
											RECOV-	DIS-	RECOV-	RECOV-	MONY,	BROMO-	CHLO-	CHLORO-	BROMO-	BROMO-
											ERABLE	ERABLE	SOLVED	ERABLE	ERABLE	TOTAL	METHANE	RIDE	ETHANE	FORM
											(UG/L)									
											AS PB)	AS MN)	AS MN)	AS NI)	AS ZN)	AS SB)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
											(01051)	(01055)	(01056)	(01067)	(01092)	(01097)	(32101)	(32102)	(32103)	(32104)

AUG 25... 10 320 210 7 30 1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TOLUENE	MANGA-	NESE,	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	CHLORO-	DI-										
		CHLORO-		CHLORO-	ETHYL-	METHYL-	METHYL-	ENE			CHLORO-	CHLORO-	1,1-DI-							
											TOTAL	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,1-DI-	CHLORO-		
											(UG/L)	(UG/L)	(UG/L)	CHLORO-	CHLORO-	ENE	CHLORO-	CHLORO-	ETHYL-	
											(34010)	(34030)	(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)

AUG 25... <0.2 <0.2 <0.20 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ETHANE		BENZENE		1,2-		BENZENE		BENZENE		2-		DI-	
	1,1,1-	1,1,2-	O-	1,2-	TRANS	DI-	1,3-DI-	1,4-DI-	CHLORO-	CHLORO-	ETHYL-	DI-	1,3-DI-	
TRI-	TRI-	TETRA-	CHLORO-	1,2-DI-	CHLORO-	1,3-DI-	CHLORO-	CHLORO-	CHLORO-	FLUORO-	CHLORO-			
CHLORO-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	VINYL-	METHANE	PROPENE			
ETHANE	ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHYL	PROPENE	PROPENE			
TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL			
(UG/L)														
	(34506)	(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34575)	(34668)	(34699)		

AUG	25...	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.1	<0.2	<0.2
-----	-------	------	------	------	-------	------	------	-------	-------	-------	------	------	------

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CIS		1,2-		SOLIDS,		ELEV.		DEPTH		DEPTH		PUMP	
	1,3-DI-	DIBROMO	VINYL	CHLORO-	CHLORO-	SUM OF	MERCURY	OF LAND	TO TOP	TO BOT-	OF	TO BOT-	OR FLOW	
CHLORO-	ETHYL-	CHLO-	ETHYL-	CHLO-	CONSTITU-	DIS-	SURFACE	DEPTH	DEPTH	OF	TO TOM OF	PERIOD		
PROPENE	ENE	RIDE	ENE	ENE	TUENTS,	SOLVED	RECOV-	DATUM	DEPTH	WATER-	WATER-	PRIOR		
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	DIS-	(TONS)	ERABLE	(FT.)	DEPTH	BEARING	BEARING	TO SAM-		
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(MG/L)	AC-FT)	PER	(UG/L)	HOLE,	ZONE	ZONE	PLING		
	(34704)	(39082)	(39175)	(39180)	(70301)	(70303)	(71900)	(72000)	(72001)	(72001)	(72003)	(72004)		

AUG	25...	<0.2	<0.2	0.4	<0.2	162	0.22	<0.10	101	70	70	70	35
-----	-------	------	------	-----	------	-----	------	-------	-----	----	----	----	----

611243149500702 - SB01300316CCBC2 006 CITY LANDFILL 2  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAMPLE	SOURCE	DEPTH		DEPTH		SPE-		ALKA-		BICAR-		CAR-	
			SAM-	DEPTH	TO TOP	TO BOT-	BELOW	CIFIC	ALKA-	LINITY	CARBON-	BONATE	BONATE	
PLING	OF	OF	TOM OF	TOM OF	LAND	CON-	CON-	CARBON-	BONATE	IT-FLD	IT-FLD			
CONDI-	WELL,	CONDI-	INTER-	INTER-	SURFACE	DUCT-	DUCT-	IT-FLD	IT-FLD	(MG/L)	(MG/L)			
TION	TOTAL	TOTAL	VAL	VAL	(WATER	STYRENE	ANCE	(MG/L)	(MG/L)	AS	AS			
(FEET)	(FT)	(FT)	(FT)	(FT)	LEVEL)	TOTAL	LAB	(US CM)	(US CM)	CACO3	CACO3			
	(72005)	(72006)	(72008)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99431)	(99440)	(99445)		

AUG	25...	1	1.00	70.00	70	70	20.50	<0.2	269	125	131	160	0
-----	-------	---	------	-------	----	----	-------	------	-----	-----	-----	-----	---

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-		LONG-		MEDIUM	SAMPLE	RECORD	TEMPER-		LECTING	LYZING	AGENCY	AGENCY	SPE-
		I-	TUDE	I-	TUDE				DIS-	ATURE					
								WATER	(CODE)	(CODE)	(CODE)				
								(DEG C)	NUMBER)	NUMBER)	NUMBER)				
								(00010)	(00011)	(00021)	(00021)				

AUG	25...	1430	61 12 43 N	149 50 07 W	6	9	98600530	7.5	1118	80611	1.0	6090
-----	-------	------	------------	-------------	---	---	----------	-----	------	-------	-----	------

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PH		PH		ALKA-		NITRO-		PHOS-		MAGNE-		SODIUM	
	WATER	WATER	WATER	WATER	LINITY	GEN,	PHORUS	HARD-	NESS	CALCIUM	SILM.	SODIUM	AD-	
SAMPLE	WHOLE	WHOLE	WAT WH	NO2+NO3	ORTHO,	PHORUS	HARD-	NESS	CALCIUM	SILM.	SODIUM	DIS-		
TREAT-	FIELD	FIELD	TOT FET	DIS-	DIS-	SOLVED	TOTAL	DIS-	DIS-	DIS-	DIS-	SORP-		
MENT	(STAND-	(STAND-	FIELD	SOLVED	SOLVED	SOLVED	(MG/L)	SOLVED	SOLVED	SOLVED	SOLVED	TION		
(CODES)	ARD	ARD	MG/L AS	(MG/L)	(MG/L)	(MG/L)	AS	(MG/L)	(MG/L)	(MG/L)	(MG/L)	RATIO		
(00115)	(00400)	(00403)	(00410)	(00631)	(00671)	(00900)	(00915)	(00915)	(00915)	(00915)	(00915)	SODIUM		
												PERCENT		
												(00931)	(00932)	

AUG	25...	1	6.8	6.8	2600	<0.100	<0.010	1800	420	180	580	6	40
-----	-------	---	-----	-----	------	--------	--------	------	-----	-----	-----	---	----

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	POTAS-	CHLO-	FLUO-	SILICA,	CADMIUM	CHRO-	IRON,	LEAD,		
	SUM,	RIDE,	SULFATE	RIDE,	DIS-	TOTAL			TOTAL	TOTAL
	DIS-	DIS-	DIS-	SOLVED	ARSENIC	RECOV-	RECOV-	RECOV-	DIS-	RECOV-
	SOLVED	SOLVED	SOLVED	(MG/L)	TOTAL	ERABLE	ERABLE	ERABLE	SOLVED	ERABLE
	(MG/L)	(MG/L)	(MG/L)	AS	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	AS K)	AS CL)	AS SO4)	AS F)	STO2)	AS AS)	AS CD)	AS CR)	AS FE)	AS PB)
	(00935)	(00940)	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)	(01042)	(01045)
										(01051)

AUG	25...	60	690	27	<0.10	26	41	<1	<1	8	88000	8300	230
-----	-------	----	-----	----	-------	----	----	----	----	---	-------	------	-----

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	MANGA-	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	CHLORO-	DI-	
	NESE,	NESE,	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,2-DI-	CHLORO-
	TOTAL	NESE,	TOTAL	TOTAL	CHLORO-	TETRA-	1,2-DI-	DI-	CHLORO-
	RECOV-	DIS-	RECOV-	RECOV-	BROMO-	CHLORO-	BROMO-	CHLORO-	CHLORO-
	ERABLE	SOLVED	ERABLE	ERABLE	TOTAL	METHANE	RIDE	ETHANE	FORM
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	TOTAL	TOTAL	TOTAL	METHANE
	AS MN)	AS MN)	AS NI)	AS ZN)	AS SB)	(UG/L)	(UG/L)	(UG/L)	FORM
	(01055)	(01056)	(01067)	(01092)	(01097)	(32101)	(32102)	(32103)	(UG/L)
									(UG/L)
									(UG/L)
									(UG/L)
									(34010)

AUG	25...	6300	5900	80	40	7	<0.2	<0.2	1.5	<0.2	<0.2	<0.2	560
-----	-------	------	------	----	----	---	------	------	-----	------	------	------	-----

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	METHYL-												TETRA-		TRI-		1,1-DI-		1,1,1-	
	CHLORO-	CHLORO-	ETHYL-	BENZENE	METHYL-	CHLORO-														
	BENZENE	BENZENE	ETHANE	BENZENE	BROMIDE	RIDE	RIDE	FLUORO-	CHLORO-	1,1-DI-	CHLORO-	TRI-								
	TOTAL	METHANE	ETHANE	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-										
	(UG/L)																			
	(34030)	(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)	(34501)	(34506)								

AUG	25...	17	<0.20	<6.9	4.3	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
-----	-------	----	-------	------	-----	------	------	------	------	------	------	------	------	------

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ETHANE, BENZENE												BENZENE BENZENE		2-		DI-	
	1,1,2-	1,1,2,2	O-	1,2-	1,2-	TRANSDI	1,3-DI-	1,4-DI-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-	CHLORO-		
	TRI-	TETRA-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-										
	CHLORO-	CHLORO-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-										
	ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	ETHER	METHANE	ETHANE	ENE	ETHANE	ENE	ETHANE			
	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL			
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)			
	(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34577)	(34668)	(34699)						

AUG	25...	<0.2	<0.2	<0.20	0.5	6.9	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2
-----	-------	------	------	-------	-----	-----	-------	-------	-------	-------	------	------	------

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SOLIDS,												ELEV.		DEPTH		PUMP	
	CIS	1,2-	TRI-	SUM OF	SOLIDS,	OF LAND	SURFACE	DEPTH	TO BOT-	OR FLOW	PERIOD							
	1,3-DI-	DIBROMO	VINYL	CHLORO-	CONSTIT-	DIS-	SOLVED	DATUM	OF	WATER-	PRIOR							
	CHLORO-	ETHYL-	CHLO-	ETHYL-	TUENTS,	SOLVED	DATUM	OF	WATER-	PRIOR								
	PROPENE	ENE	RIDE	ENE	DIS-	(TONS	(FT.	OF	WATER-	PRIOR								
	TOTAL	TOTAL	TOTAL	TOTAL	SOLVED	PER	ABOVE	ZONE	BEARING	TO SAM-	SAMPLE							
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(MG/L)	(AC-FT)	(NGVD)	(FEET)	(FT.)	PLING	SOURCE							
	(34704)	(39082)	(39175)	(39180)	(70301)	(70303)	(72000)	(72001)	(72003)	(72004)	(72005)							

AUG	25...	<0.2	<0.2	46	0.7	3570	4.85	102	19	23	50	1
-----	-------	------	------	----	-----	------	------	-----	----	----	----	---

611243149500703 - SB01300316CCBC3 006 CITY LANDFILL 3  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	DEPTH		DEPTH		DEPTH		SPE-		ALKA-		CAR-	
	TO TOP		TO BOT-		BELOW		CIFIC		LINITY,		BICAR-	
	SAM-	DEPTH	OF	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB	ATE	IT-FLD	IT-FLD	BONATE
PLING	CONDI-	WELL,	INTER-	INTER-	(WATER	STYRENE	ANCE	(MG/L	(MG/L	(MG/L	CAR-	
CONDI-	TION	TOTAL	VAL	VAL	LEVEL)	TOTAL	LAB	AS	(MG/L	AS	BONATE	
		(FEET)	(FT)	(FT)	(FEET)	(UG/L)	(US/CM)	CACO3)	CACO3)	HCO3)	CO3)	
		(72006)	(72008)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99430)	(99440)	

AUG  
25... 1.00 17.00 13 17 8.27 <0.2 5630 2190 2620 3190 0

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	LAT-		LONG-		MEDIUM		SAMPLE		RECORD		AGENCY		AGENCY		SPE-	
	I-		I-		CODE		TYPE		NUMBER		LECTING		LYZING		FLOW	
	TIME	TUDE	TUDE	CODE	TYPE	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	(CODE	(CODE	NUMBER	NUMBER	NUMBER	CIFIC
										(00027)	(00028)	(00059)	(00095)	(00115)	CON-	
															TREAT-	
															MENT	

AUG  
27... 1120 61 12 37 N 149 50 13 W 6 9 98600539 1028 80020 0.3 2020 1

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PH	ALKA-	NITRO-	PHOS-													
	WATER	LINITY	GEN,	PHORUS	HARD-												
	WHOLE	WAT WH	NO2+NO3	ORTHO,	NESS	CALCIUM	SUIM,	SODIUM,	AD-	DIS-	SORP-	TION	SODIUM	POTAS-	CHLO-		
LAB	TOT FET	DIS-	DIS-	TOTAL	DIS-	DIS-	DIS-	DIS-	SOLVED	SOLVED	SOLVED	RATIO	SOLVED	SOLVED			
(STAND-	FIELD	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	SOLVED	SOLVED	SOLVED	SODIUM	SODIUM	SODIUM			
ARD	MG/L AS	(MG/L	(MG/L	AS	AS	(MG/L	(MG/L	(MG/L	AS	AS	AS	(MG/L	(MG/L	(MG/L			
UNITS)	CACO3	AS N)	AS P)	CACO3)	AS CA)	AS MG)	AS NA)	AS NA)	PERCENT	PERCENT	PERCENT	AS K)	AS K)	AS CL)			
	(00403)	(00631)	(00671)	(00900)	(00915)	(00925)	(00930)	(00931)	(00932)	(00935)	(00940)						

AUG  
27... 7.2 798 <0.100 <0.010 550 110 68 200 4 41 49 220

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	FLUO-		SILICA,		CADMIUM		CHRO-						MANGA-		
	SULFATE	RIDE,	DIS-	SOLVED	ARSENIC	RECOV-	TOTAL	TOTAL	TOTAL	TOTAL	IRON,	IRON,	LEAD,	NESE,	MANGA-
	DIS-	DIS-	SOLVED	(MG/L	(MG/L	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE	RECOV-	RECOV-	TOTAL	TOTAL	NESE,
SOLVED	SOLVED	(MG/L	AS	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	ERABLE	ERABLE	RECOV-	RECOV-	DIS-	
(MG/L	(MG/L	(MG/L	AS F)	AS S)	AS AS)	AS CD)	AS CR)	AS CU)	AS FE)	ERABLE	ERABLE	ERABLE	ERABLE	SOLVED	
AS SO4)	AS F)	AS F)	SIO2)	AS AS)	AS AS)	AS CD)	AS CR)	AS CU)	AS FE)	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	
	(00945)	(00950)	(00955)	(01002)	(01027)	(01034)	(01042)	(01045)	(01046)	(01046)	(01046)	(01051)	(01055)	(01056)	

AUG  
27... 29 0.20 19 45 1 1 1100 500000 1200 300 13000 2700

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NICKEL,	ZINC,	DI-	CARBON-										
	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,2-DI-	DI-							
	RECOV-	RECOV-	MONY,	BROMO-	CHLO-	CHLORO-	BROMO-	BROMO-	CHLORO-					
ERABLE	ERABLE	TOTAL	METHANE	RIDE	ETHANE	FORM	METHANE	FORM	TOLUENE	BENZENE				
(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L				
AS NI)	AS ZN)	AS SB)	(UG/L)											
	(01067)	(01092)	(01097)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)	(34030)			

AUG  
27... 1000 3500 5 <0.2 <0.2 0.4 <0.2 <0.2 <0.2 <0.2 <0.2 0.3

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHLORO-	CHLORO-	ETHYL-	METHYL-	CHLORO-	CHLORO-	TETRA-	TRI-	1,1-DI-		1,1,1-	
									BENZENE	ETHANE	BENZENE	BROMIDE
TOTAL												
(UG/L)												
(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	(34496)	(34501)	(34506)		

AUG  
27... <0.20 6.4 <0.2 <0.2 2.7 1.5 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ETHANE,	BENZENE	1,1,2-	1,1,2,2	O-	1,2-	BENZENE	BENZENE	2-	DI-		
										TRI-	TETRA-	CHLORO-
TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL
(UG/L)	(UG/L)	(UG/L)										
(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34576)	(34668)	(34699)		

AUG  
27... <0.2 <0.2 <0.20 <0.2 <0.2 <0.20 <0.20 <0.20 <0.2 <0.2 0.6 <0.2

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CIS	1,2-	DIBROMO	VINYL	CHLORO-	CHLORO-	SOLIDS,		ELEV.		PUMP	
							1,3-DI-	ETHYL-	CHLO-	ETHYL-	CONSTITUENTS	DIS-
TOTAL	SOLVED	RECOV-	DATUM	OF	PERIOD							
(UG/L)	(MG/L)	(TONS)	(FT.)	OF	PRIOR							
(34704)	(39082)	(39175)	(39180)	(70301)	(70303)	(71900)	(AC-FT)	(ERABLE)	(HOLE)	TO SAM-	SAMPLE	
							(AS HG)	(AS HG)	(FEET)	PLING	SOURCE	
							(NGVD)	(NGVD)	(FEET)	(MIN)		
							(72000)	(72000)	(72001)	(72004)	(72005)	

AUG  
27... <0.2 <0.2 2.9 <0.2 1180 1.61 1.1 129 70 80 33

611243149501401 - SB01300317DDDD1 002 CITY LANDFILL 11  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAM-	DEPTH	DEPTH	DEPTH	SPE-	ALKA-		BICAR-	CAR-	
						TO TOP	TO BOT-			BELOW
PLING	OF	OF	TOM OF	LAND	CON-	LINITY	CARBON	BONATE	IT-FLD	
CONDITI-	CONDITI-	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB	ATE	IT-FLD	IT-FLD	
CONDITI-	CONDITI-	WELL,	INTER-	INTER-	STYRENE	ANCE	(MG/L)	(MG/L)	(MG/L)	
CONDITI-	CONDITI-	TOTAL	VAL	VAL	(WATER)	TOTAL	AS	(MG/L)	(MG/L)	
CONDITI-	CONDITI-	(FEET)	(FT)	(FT)	(FEET)	LAB	AS	AS	AS	
CONDITI-	CONDITI-	(72006)	(72008)	(72015)	(72016)	(72019)	(77128)	(90095)	(90410)	(99430)
CONDITI-	CONDITI-									(99440)
CONDITI-	CONDITI-									(99445)

AUG  
27... 1.00 69.50 50 70 39.29 <0.2 2080 748 804 981 0

611243149504801 - SB01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	LAT-	LONG-	I-	I-	MEDIUM	SAMPLE	RECORD	TEMPER-	AGENCY		AGENCY		SPE-	
										TUDE	TUDE	CODE	TYPE	NUMBER	WATER
									(DEG C)	ATURE	SAMPLE	SAMPLE	INSTAN-	DUCT-	
									(00010)	(NUMBER)	(CODE)	(CODE)	TANEOUS	ANCE	
									(00027)	(NUMBER)	(G/M)	(G/M)	(US/CM)	(US/CM)	
									(00028)	(NUMBER)	(00059)	(00095)			

AUG  
27... 1510 61 12 37 N 149 50 47 W 6 9 98600551 7.5 1028 80020 0.5 2500

611243149504801 - SE01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	SAMPLE	PH	PH	ALKA-	NITRO-	PHOS-	MAGNE-			SODIUM			
		WATER	WATER	LINITY	GEN, NO2+NO3	PHORUS ORTHO,	HARD-NESS	CALCIUM	SIUM,	SODIUM,	AD-		
		WHOLE	WHOLE	WAT WH	DIS-	DIS-	TOTAL	DIS-	SOLVED	SOLVED	SORP-		
TREAT-	FIELD	LAB	TOT FET	SOLVED	SOLVED	(MG/L)	(MG/L)	(MG/L)	TION				
MENT	(STAND-	(STAND-	FIELD	SOLVED	SOLVED	(MG/L)	(MG/L)	(MG/L)					
(CODES)	ARD	ARD	MG/L AS	AS N)	AS P)	CACO3	AS CA)	AS MG)	RATIO				
(00115)	(00400)	(00403)	(00410)	(00631)	(00671)	(00900)	(00915)	(00925)	PERCENT				
AUG	27...	1	6.2	6.4	1130	<0.100	<0.010	1200	340	80	56	0.7	9

611243149504801 - SE01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	POTAS-	CHLO-	FLUC-	SILICA,	CHRO-			IRON,				
		SIUM,	RIDE,	SULFATE	RIDE,	DIS-	CADMIDIUM	MIUM,	COPPER,	IRON,		
		DIS-	DIS-	DIS-	SOLVED	SOLVED	ARSENIC	RECOV-	RECOV-	RECOV-		
SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L)	TOTAL	TOTAL	TOTAL	DIS-			
(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	AS	(UG/L)	(UG/L)	(UG/L)	SOLVED			
AS K)	AS CL)	AS SO4)	AS F)	SI02)	AS AS)	AS CD)	AS CR)	AS CU)	(UG/L)			
(00935)	(00940)	(00945)	(00951)	(00955)	(01002)	(01027)	(01034)	(01042)	(01045)	(01046)		
AUG	27...	6.8	110	9.5	0.13	23	12	<1	2	32	140000	130000

611243149504801 - SE01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	LEAD,	MANGA-	MANGA-	NICKEL,	ZINC,	DI-	CARBON-	CHLORO-				
		NESE,	TOTAL	NESE,	TOTAL	TOTAL	ANTI-	CHLORO-	TETRA-	1,2-DI-	DI-	
		TOTAL	RECOV-	DIS-	RECOV-	RECOV-	MONY,	BROMO-	CHLO-	CHLO-	IRON,	
RECOV-	ERABLE	SOLVED	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	ERABLE	ERABLE			
ERABLE	(UG/L)											
(AS PB)	AS MN)	AS MN)	AS MN)	AS ZN)	AS SB)	(UG/L)	(UG/L)	(UG/L)	(UG/L)			
(01051)	(01055)	(01056)	(01057)	(01092)	(01097)	(32101)	(32102)	(32103)	(32104)	(32105)		
AUG	27...	<5	59000	56000	40	70	1	<0.2	<0.2	1.0	<0.2	<0.2

611243149504801 - SE01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHLORO-	CHLORO-			ETHYL-			METHYL-			TETRA-		TRI-
		FORM	TOLUENE	BENZENE	BENZENE	CHLORO-	CHLORO-	ETHANE	BENZENE	METHYL-	CHLO-	CHLO-	CHLORO-
		TOTAL	BENZENE	BROMIDE	RIDE	RIDE	ENE						
(UG/L)	(UG/L)	(UG L)	(UG L)	(UG/L)									
(32106)	(34010)	(34030)	(34311)	(34311)	(34371)	(34413)	(34418)	(34423)	(34423)	(34475)	(34488)		
AUG	27...	0.6	440	4.7	<0.10	13	3.3	<0.2	1.3	210	0.4	4.5	

611243149504801 - SE01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	1,1-DI-	1,1,1-	1,1,1-	1,1,1-	ETHANE,	BENZENE	BENZENE			BENZENE		BENZENE
		CHLORO-	TRI-	TRI-	1,1,2,2	O-	1,2-	1,2-DI-	TRANSDI	1,3-DI-	CHLORO-	CHLORO-
		CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	CHLORO-	CHLORO-	CHLORO-	CHLORO-	WATER
ETHANE	ENE	ETHANE	ETHANE	WAT UNF	UNFLTRD	PROPANE	ETHENE	PROPENE	UNFLTRD	UNFLTRD	UNFLTRD	
TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	TOTAL	TOTAL	TOTAL	REC	REC	REC	
(UG/L)	(UG/L)	(UG L)	(UG L)	(UG/L)								
(34496)	(34501)	(34506)	(34511)	(34516)	(34536)	(34541)	(34546)	(34561)	(34566)	(34571)	(34571)	
AUG	27...	140	<0.2	26	<0.1	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20

611243149504801 - SB01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	2-	DI-	TRANS-	CIS	1,2-	TRI-	SUM OF	SOLIDS,	MERCURY	ELEV.	
	CHLORO-	CHLORO-	1,3-DI-	1,3-DI-	DIBROMO	VINYL	CHLORO-	CONSTITU-	DIS-	OF LAND	
ETHYL-	DI-	FLUORO-	CHLORO-	CHLORO-	ETHYL-	CHLO-	TUENTS,	SOLVED	SURFACE		
VINYL-	FLUORO-	CHLORO-	PROPENE	PROPENE	ENE	RIDE	ENE	DIS-	DATUM		
ETHER	METHANE	PROPENE	PROPENE					(TONS)	(FT.		
TOTAL	SOLVED	ERABLE									
(UG/L)	PER	(UG/L)									
(34576)	(34668)	(34699)	(34704)	(39082)	(39175)	(39180)	(70301)	(70303)	ABOVE		
								AS	NGVD		
AUG											
27...	<0.2	90	<0.2	<0.2	<0.2	3.9	8.0	1490	2.03	0.20	122

611243149504801 - SB01300317DCDC1 011 CITY LANDFILL 12  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PUMP				DEPTH	DEPTH	DEPTH	SPE-	
	DEPTH	OR FLOW	PERIOD	SAM-	DEPTH	TO TOP	TO BOT-	BELOW	CIFIC
OF	PRIOR	PLING	OF	DEPTH	OF	OF	LAND	CON-	LINITY
HOLE,	TO SAM-	SAMPLE	CONDI-	WELL,	SAMPLE	SAMPLE	SURFACE	DUCT-	LAB
TOTAL	PLING	SOURCE	TION	TOTAL	TOTAL	INTER-	(WATER	STYRENE	ANCE
(FEET)	(MIN)	(72004)	(72005)	(72006)	(72008)	(72015)	(FT)	(UG/L)	(MG/L)
(72001)	(72004)	(72005)	(72006)	(72008)	(72015)	(72016)	(FEET)	(77128)	CACO3)

AUG											
27...	50	35	1	1.00	49.30	29	49	29.76	<0.2	2330	877

611254149501301 - SB01300317DA1A1 012  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1969

DATE	LAT-	LONG-	MEDIUM	SAMPLE	RECORD	TEMPER-	COLOR	SPE-	PH	ALKA-							
	I-	I-	CODE	TYPE	NUMBER	ATMPE	INUM-	CIFIC	WATER	CARBON							
TUDE	TUDE				WATER	COBALT	CON-	WHOLE	DIOXIDE								
					(DEG C)	(UNITS)	DUCT-	FIELD	WAT WH								
					(00000)	(00080)	(STAND-	DIS-	DIS-								
						(00095)	(00400)	SOLVED	FIELD								
							(00405)	(00410)									
MAY																	
07...	61	12	54	N	149	50	13	W	6	9	96900583	1.5	10	216	8.3	1.1	113

611254149501301 - SB01300317DA1A1 012  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1969

DATE	BICAR-	CAR-	NITRO-	HARD-						
	BONATE	BONATE	GEN,	HARD-	NESS	MAGNE-	SODIUM		POTAS-	
WATER	WATER	NITRATE	NESS	NONCARB	CALCIUM	SIUM,	SODIUM,	SIUM,		
WH FET	WH FET	DIS-	TOTAL	WH WAT	DIS-	DIS-	SORP-	DIS-		
FIELD	FIELD	SOLVED	(MG/L)	TOT FLD	SOLVED	SOLVED	TION	SOLVED		
MG/L AS	MG/L AS	(MG/L)	AS	MG/L AS	(MG/L)	MG/L	(MG/L)	SODIUM		
HCO3	CO3	(AS N)	CACO3)	CACO3	(AS CA)	AS MG)	AS NA)	(MG/L)		
(00440)	(00445)	(00618)	(00900)	(00902)	(00915)	10925)	(00930)	PERCENT		

MAY											
07...	140	0	0.110	98	0	25	8.6	8.0	0.4	15	1.0

611254149501301 - SB01300317DA1A1 012  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1969

DATE	CHLO-	FLUO-	SILICA,	SUM OF	SOLIDS,	NITRO-	ELEV.				
	RIDE,	SULFATE	RIDE,	DIS-	SOLIDS.	GEN,	OF LAND				
DIS-	DIS-	DIS-	SOLVED	CONSTITU-	NITRATE	SURFACE	DEPTH				
SOLVED	SOLVED	SOLVED	(MG/L)	DIS-	DATUM	DEPTH	DEPTH				
(MG/L)	(MG/L)	(MG/L)	AS CL)	(TONS)	IRON	OF	OF				
AS CL)	AS SO4)	AS F)	AS F)	SOLVED	PER	HOLE,	WELL,				
(00940)	(00945)	(00950)	(00955)	(70301)	(AC-FT)	AS NO3)	AS PE)				
MAY											
07...	0.0	6.5	0.20	13	131	0.18	0.50	900	129	305	305.00

611255149495801 - SB01300316CBDB1 005  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DATE	LAT- I- TUDE	LONG- I- TUDE	MEDIUM	SAMPLE	RECORD	INUM- COBALT UNITS)	(PLAT- ANCE (US/CM) (00080)	SPE- CIFIC (00095)	WATER	CARBON	LINITY	DIS- FIELD TOT FET	BICAR- BONATE WATER				
														NUMBER	DUCT- ANCE (00400)	FIELD	WAT WH
														UNITS)	(US/CM)	ARD	(MG/L)

AUG  
17... 61 12 55 N 149 49 58 W 6 9 96800736 10 293 7.8 4.5 144 180

611255149495801 - SB01300316CBDB1 005  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DATE	CAR- BONATE WATER WH FET FIELD MG/L AS CO3	(MG/L) (AS N) (00445)	NITRO- GEN, NITRATE DIS- SOLVED	HARD- NESS NONCARB TOTAL AS (00618)	HARD- NESS CALCIUM WH WAT TOT FLD MG/L AS (00900)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00915)	SODIUM AD- SOLVED (MG/L) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L) (00931)	CHLO- RIDE, DIS- SOLVED (MG/L) (00935)				
										NONCARB	CALCIUM	SODIUM	TION
										AS	AS	(MG/L)	RATIO

AUG  
17... 0 0.050 120 0 30 12 16 0.6 22 2.2 5.8

611255149495801 - SB01300316CBDB1 005  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DATE	SULFATE DIS- SOLVED (MG/L) AS SO4	(MG/L) (AS F) (00945)	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED	SUM OF CONSTI- TUENTS	SOLIDS, DIS- (TONS)	NITRO- GEN, DIS- SOLVED	ELEV. OF LAND SURFACE	DEPTH OF HOLE, WELL, TOTAL	DEPTH OF WELL, TOTAL (FT.)	DEPTH OF INTER- VAL	DEPTH OF INTER- VAL (FT.)						
													SOLIDS,	DIS-	GEN,	OF LAND	DEPTH	DEPTH
													(MG/L)	AS	SOLVED	PER	(MG/L)	(FT.)

AUG  
17... 10 0.20 10 173 0.24 0.20 132 170 170.00 170 170

611306149495701 - SB01300316BCCD1 004  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1956 TO SEPTEMBER 1957

DATE	LAT- I- TUDE	LONG- I- TUDE	MEDIUM	SAMPLE	RECORD	CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC			
								CODE	TYPE	NUMBER

APR  
11... 61 13 06 N 149 49 57 W 6 9 95700209 222

611306149495701 - SB01300316BCCD1 004  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1956 TO SEPTEMBER 1957

DATE	SULFATE DIS- SOLVED (MG/L) AS SO4	(MG/L) (72000)	ELEV. OF LAND SURFACE	DEPTH OF DEPTH	DEPTH OF TOTAL TOTAL	DEPTH OF TOTAL (FT.)	DEPTH OF TOTAL (FT.)						
								DIS-	DATUM	DEPTH	OF	TO TOP	TO BOT-
								SOLVED	(PT. ABOVE)	TOTAL	OF	SAMPLE	SAMPLE

APR  
11... 8.9 136 192 192.00 192 192