Memorandum Report

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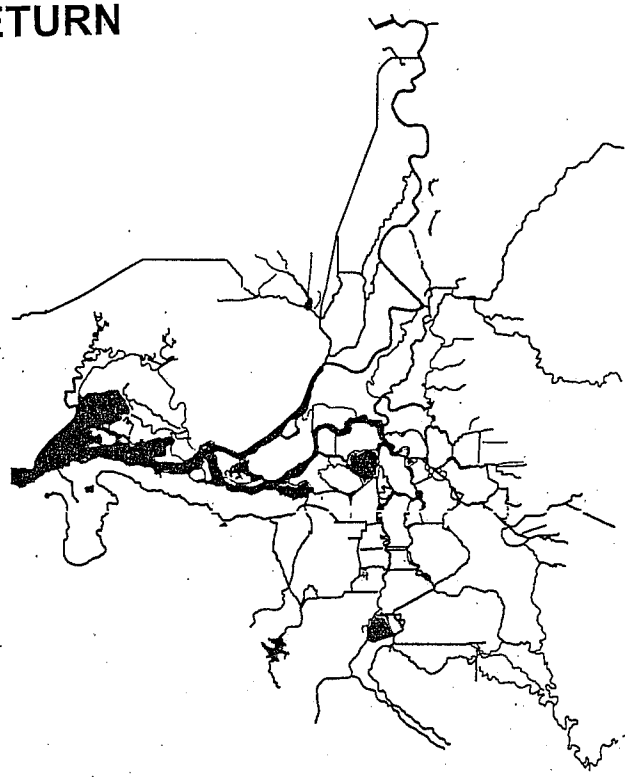

Byron Tract Baseline Study of Dredge Material Reuse Sites

Interim South Delta Program

Department of Water Resources
March 1998

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
Office of State Water Project Planning
Division of Planning and Local Assistance

Byron Tract Baseline Study of Dredge Material Reuse Sites

Interim South Delta Program

Memorandum Report

March 1998

State of California | The Resources Agency

Memorandum

Date : MAR 13 1998

To : Mike Ford, Chief
Delta Planning Branch
Office of State Water Project Planning

From : Phil Wendt, Chief
Water Quality Assessment Branch
Division of Planning and Local Assistance
Department of Water Resources

Subject: Byron Tract Baseline Study of Dredge Material Reuse Sites for the Interim South Delta Program - Memorandum Report

This memorandum report describes an environmental study conducted by the Division of Planning and Local Assistance for the Office of State Water Project Planning. This report satisfies DPLA's responsibilities contained in the OSWPP Program Work Order Assignment requesting this work.

The study was conducted as part of the background information obtained in association with the Interim South Delta Program. The primary objective of this environmental study was to predict environmental impacts that could occur as a result of the proposed dredge material reuse activities. The work completed in this study is a continuation of soil, water, and aquatic sediment studies conducted in 1992, 1994, 1995, and 1996, which obtained baseline information on both the dredge material reuse sites and on the Old River sediments to be dredged. Samples for this study included channel water, agricultural drainage water, and soil from the proposed sediment disposal areas and levee reuse sites adjacent to Highway 4. Samples were analyzed for constituents of environmental concern, with results presented in this report.

Comparison of the soil samples with criteria from the Central Valley Regional Water Quality Control Board, San Francisco Regional Water Quality Control Board, and California Hazardous Waste Regulations indicates that the soil quality is acceptable for its intended use. While some Byron Tract dredge material placement sites had acid-generation potential (N/A) ratios which were less than CVRWQCB's minimum level of 3, the Old River sediments to be placed on them had mean N/A ratios much greater than 3 (DWR, 1997). Also, all soluble metal levels in the Old River sediments were below the Maximum Contaminant Levels for drinking water. These results indicate that potential leaching of the water contained in the dredge material dewatering ponds through the island and levee soils is not likely to affect groundwater quality.

Nearly all island, levee, and roadside soil samples had total nickel concentrations above CVRWQCB Draft General Order Waste Discharge

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Requirements, and one roadside sample had soluble nickel concentrations above some of the CVRWQCB Draft General Order Waste Discharge Requirements. Many samples had detectable soluble copper concentrations, all of which were above some CVRWQCB Draft General Order Waste Discharge Requirements.

If you have any questions or comments, please contact Richard Breuer, Chief of DPLA's Municipal Water Quality Investigations Unit, at (916) 327-1725 or Richard Sapudar at (916) 445-9191.

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Executive Summary

The Interim South Delta Program is a proposed action to settle pending litigation against U.S. Bureau of Reclamation and California Department of Water Resources and enhance the State Water Project's delivery capability. It is a public water management program that addresses issues concerning the southern Sacramento-San Joaquin Delta. The purpose of ISDP, as identified by DWR, USBR, and the U.S. Army Corps of Engineers, is to: (1) improve water levels and circulation in south Delta channels for local agricultural diversions, and (2) improve south Delta hydraulic conditions to increase diversion into Clifton Court Forebay and consequently maximize the frequency of full pumping capacity at Banks Pumping Plant.

The ISDP project area generally comprises lands and channels southwest of Stockton. Under the ISDP Preferred Alternative, CCF would retain its present size; a new intake structure would be constructed at its northeastern corner; three flow control structures would be constructed in Middle River, Old River, and Grantline Canal; and a fish control structure would be built at the head of Old River near the San Joaquin River. Channel dredging would occur along Old River between CCF and North Victoria Canal.

The work completed in this study is a continuation of previous studies conducted for ISDP. The primary objective of this environmental study was to help predict environmental impacts that could occur as a result of the proposed dredge material disposal activities associated with ISDP. Division of Planning and Local Assistance staff collected samples for this study from the channel water, agricultural drain water, proposed island and levee disposal sites, and additional soil samples from sites adjacent to Highway 4. The samples were analyzed for constituents of environmental concern.

The primary concern with the reuse of dredge material on islands and levees is the potential for release of constituents into surface and/or groundwater. The major reactions involved in the release of contaminants are oxidation and acidification. Upon transfer of the sediment to land, previously anoxic sediments slowly oxidize. Metals, trace elements, and other constituents associated with the oxidizable fractions may be released as oxidation occurs. Oxidation, in turn, may result in acidification of the sediment, resulting in further release of trace metals.

Nearly all island, levee, and roadside samples had total nickel concentrations above Central Valley Regional Water Quality Control Board's Total Maximum Value, but only one roadside soil sample had soluble nickel concentrations above CVRWQCB's Soluble Maximum Value. No soil samples had copper concentrations above SMV, but all samples with detectable soluble copper concentrations were above SMV with discharge to the river.

With the exception of two soil samples with detected levels of DDT, synthetic organic compounds were not detected in all other samples. All of the samples obtained from the dredge material placement area near Highway 4 and both roadside samples had soluble pH concentrations below CVRWQCB's lower guideline of 6.5. The N/A ratios of these samples are also below CVRWQCB's minimum ratio of 3.

Comparison of the soil sample results with criteria from CVRWQCB, San Francisco Regional Water Quality Control Board, and California Hazardous Waste Regulations indicates that the soils are of acceptable quality for the intended use. Review of the results also indicates that potential leaching of the effluent through the island and levee soils is not likely to affect groundwater.

Introduction

Project Location

The Interim South Delta Program project area generally comprises 150,000 acres of land and channels southwest of Stockton (Figures 1 and 2). It incorporates parts or all of Orwood Tract, Woodward Island, Upper Jones Tract, Victoria Island, Coney Island, Union Island, Middle and Upper Roberts Island, Fabian Island, Byron Tract, and Stewart Tract. It includes the South Delta Water Agency which serves about 120,000 acres of irrigated agricultural lands. The remaining area consists of waterways, berms, channel islands, levees, and residential and industrial properties. Important features of the State Water Project and the Central Valley Project are also located in the project area.

The south Delta is approximately bounded by Stockton on the north, Manteca on the east, Tracy on the south, and Discovery Bay on the west. State Routes 4 and 120, Interstates 5 and 205, and numerous county roads pass through the southern Delta. About 450,000 acre-feet of water is diverted from south Delta channels each year to irrigate the fully developed and highly productive agricultural land. The 75 miles of channels in the southern Delta also serve as drainage and floodwater canals, wildlife habitat, migratory routes for fish, and as recreation for boaters.

Project Description

The purposes of ISDP are to improve water levels and circulation in south Delta channels for local agricultural diversions and improve south Delta hydraulic conditions to increase diversion into Clifton Court Forebay to maximize the frequency of full pumping capacity at Banks Pumping Plant. Under this program, CCF would retain its present size (2,180 acres); a new intake structure would be constructed at its northeastern corner; three flow control structures would be constructed in Middle River, Old River, and Grantline Canal; a fish control structure would be built at the head of Old River near the San Joaquin River; and channel dredging would occur along Old River between CCF and North Victoria Canal.

Approximately 4.9 miles of Old River north of the proposed intake structure would be dredged, removing about one million cubic yards of material in a three-year period. The final configuration of the channel will approximate a trapezoid, with side slopes of a 2 horizontal to 1 vertical, and a 3 horizontal to 1 vertical slope depending on the elevation of the channel. Material will be removed from the center two-thirds of the channel defined at mean sea level. Placement of dredge material for levee maintenance has been considered before at Victoria Island, Twitchell Island, and Byron Tract, although other uses are possible. The baseline studies for both Victoria and Twitchell Islands were completed in 1995 and 1996, respectively.

Figure 1
Location of ISDP Program Area

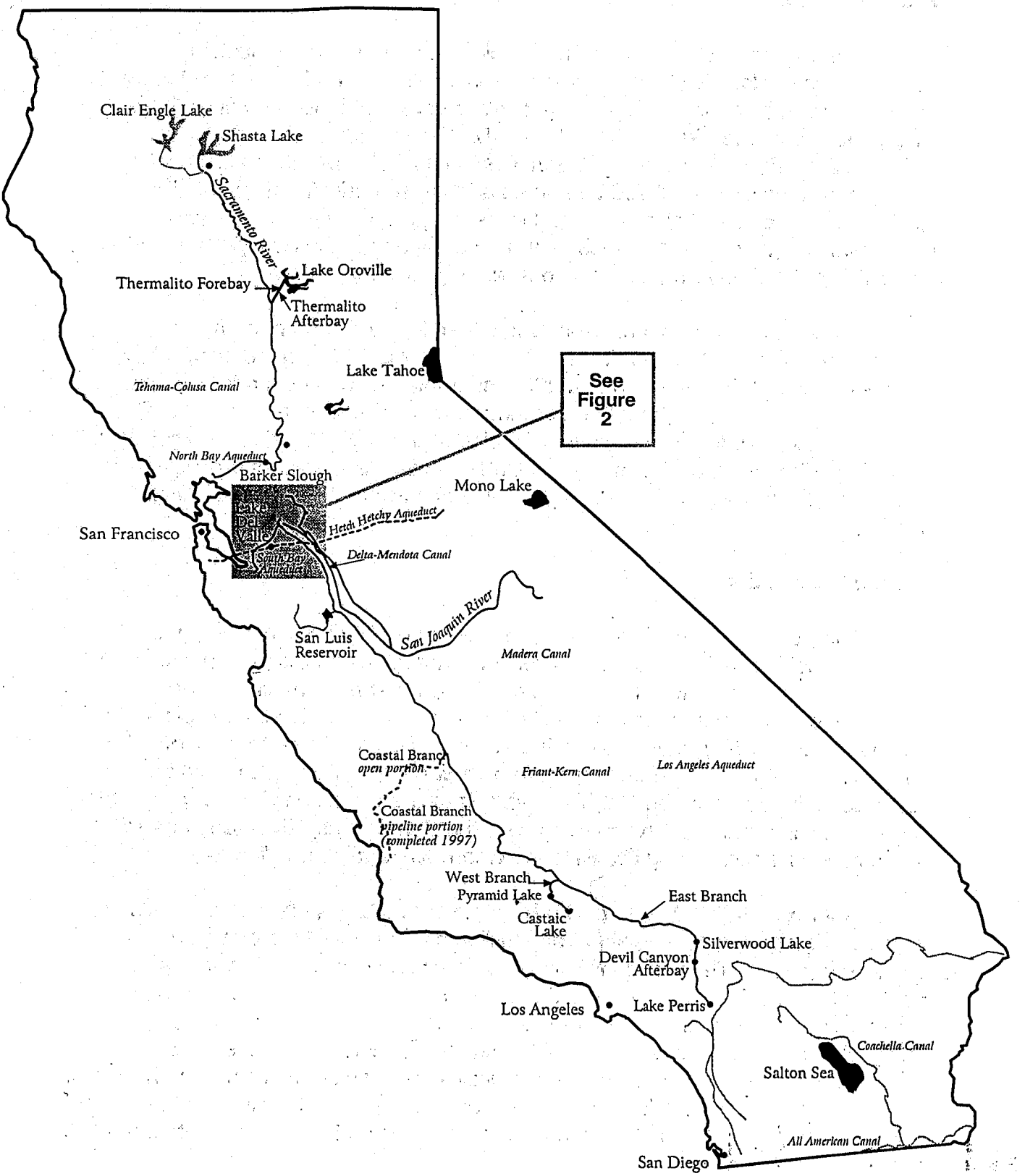
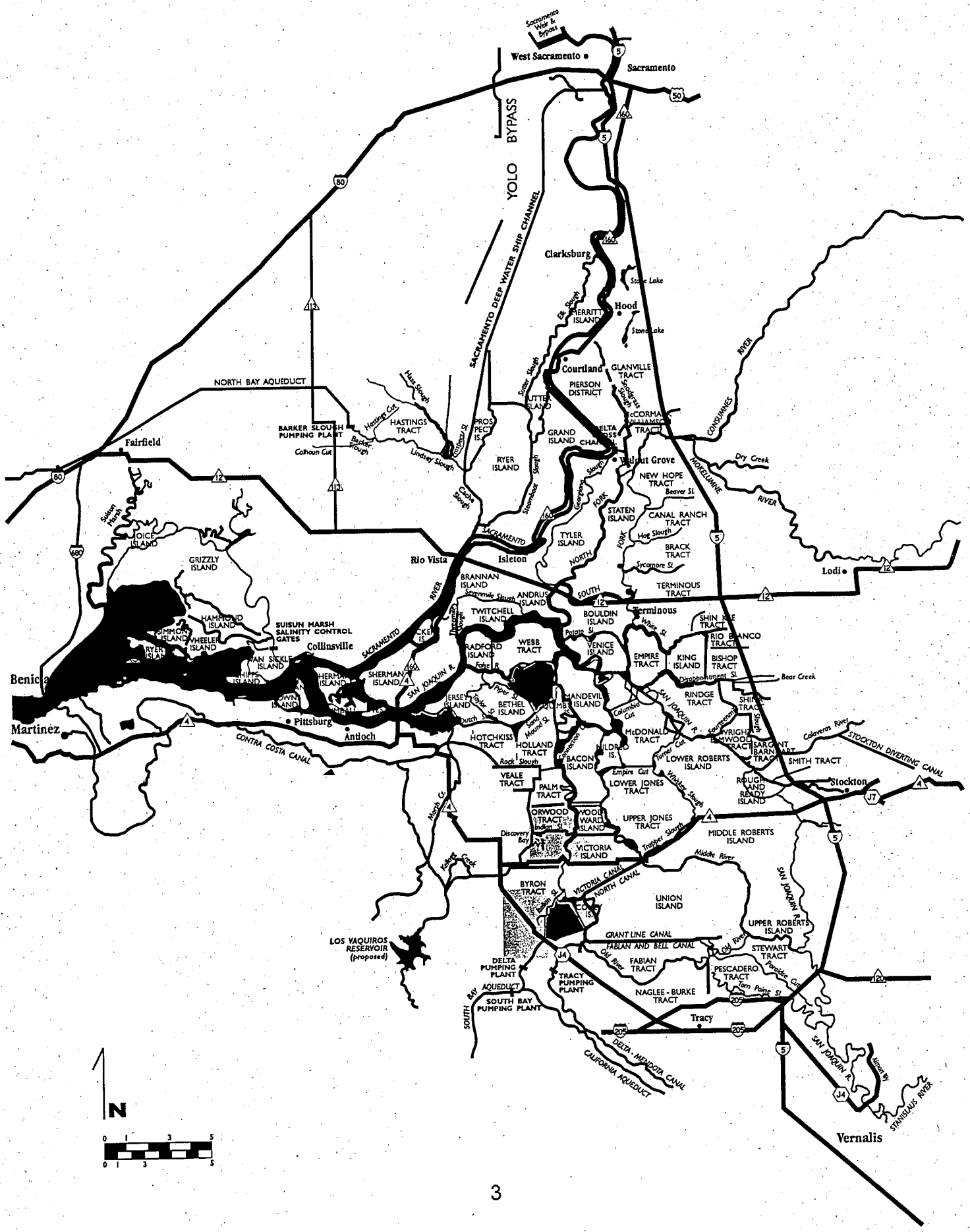


Figure 2
Byron Tract Project Area



Dredging of Channels

Hydraulic and mechanical dredging are the two methods under consideration for use by ISDP. A decision on which dredging method will be used will be made before work begins. A combination of methods is also a possibility depending on project needs.

Hydraulic dredging is only capable of pumping between 12 and 18 percent solids and must be deposited into settling ponds to remove suspended sediments. The holding ponds are then drained after sufficient settling of suspended sediments has occurred.

Mechanical dredging, possibly using a clamshell, allows for quicker drying and placement of dredge material, and avoids discharging substantial quantities of liquids. Suspended solids and turbidity are generally higher during actual dredging operations using this method but can be reduced by using an "environmental bucket." Transportation of dredge material is most commonly done by barge.

Method of Disposal of Dredge Materials

If mechanical dredging is used, the dredge material will most likely be transported by barge to the placement or use site unless they are located near the channel being dredged. At the placement site, the dredge material will be deposited on the backside of the levee and allowed to dewater by gravity and evaporation. A ditch will be constructed to collect the runoff from the sediment. When the moisture content of the material is within acceptable engineering limits, the material will be used on the backside of levees to provide additional stability. The levee reinforcement will proceed as directed by the project's engineering specifications. Other nonwaterside levee uses for the dredged material may also be determined.

If hydraulic dredging is used to dredge the channels, the sediment will settle in designated ponds adjacent to the project area and dewater until the material is within acceptable engineering limits. Approximately 600 acres of land would be needed for construction of the ponding area(s). Water from the ponds that reenters the river will be carefully monitored to ensure compliance with applicable water quality standards.

Potential Environmental Impacts

The major short- and long-term impacts associated with placement or use of dredge material on the island(s) and levees are the release of contaminants from the dredge material and their possible introduction into surface water and/or groundwater. The major reactions resulting in contaminant release are oxidation and acidification.

In the aquatic environment, most sediments exist in an anoxic or oxygen-free environment. The diffusion of oxygen in sediment is so slow that the oxygen content declines rapidly with increasing depth. A strong oxygen concentration gradient may exist over a depth of only millimeters. Upon transfer of the sediment to land, previously anoxic sediments slowly become oxygenated or oxidized. This process may take a period of years, depending on the amount of dredge material, the redox potential of the sediment, and the amount of oxidizable matter. During this process, metals, trace elements, and other contaminants associated with the oxidizable fractions may be released.

Oxidation of the dredge material may result in acidification of the sediment through the production of hydrogen ions which lower the pH of the sediment, and is dependent on the neutralization capacity of the sediment. Acidification may result in the displacement and release of metals by the increased concentration of hydrogen ions.

Rainfall can percolate through the dredge material carrying the released contaminants to groundwater and soil. Surface runoff from rainfall can flow over the dredge material, carrying the contaminants into surface waters. The loading of contaminants into the aquatic environment could cause adverse impacts to aquatic life or human health if concentrations are above the CVRWQCB Water Quality Objectives, or other water quality standards.

An evaluation of the suitability of the dredge material for island disposal and levee reinforcement is contained in the Department of Water Resources memorandum reports, *Water and Sediment Quality Study for the Interim South Delta Program* (DWR, 1995) and *Environmental Study of Dredged Materials in Old River* (DWR, 1997).

This report addresses the background conditions at the proposed dredge material placement or use sites.

Objectives of Environmental Study

The purpose of this study was to evaluate baseline conditions of channel water and levee soil on Byron Tract, one of the potential dredge material placement or use sites. Byron Tract is proposed as a dredge material site in the event that clamshell dredging is selected. The primary objective of this environmental study is to help predict any impact that may occur as a result of the proposed dredge material reuse activities associated with ISDP, including the effects of physical and chemical components of the dredged material on the environment. The work completed in this study is a continuation of a sampling program which may be found in the following reports:

- *Environmental Study for the Interim South Delta Program: Water, Sediment and Soil Quality*, May 1994 (DWR 1994)
- *Water and Sediment Quality Study for the Interim South Delta Program*, May 1995 (DWR 1995a)
- *Victoria Island Baseline Study for the Interim South Delta Program*, November 1995 (DWR 1995b)
- *Twitchell Island Baseline Study for the Interim South Delta Program,* November 1996 (DWR 1996)
- *Environmental Study of Dredged Materials in Old River, Interim South Delta Program,* May 1997 (DWR 1997)

The management strategy proposed for ISDP is a tiered approach to testing. The decision-making framework includes compliance with California and federal water and soil quality criteria and standard quality assurance/quality control principles and practices. Where criteria are lacking, historical data are considered. This study evaluates representative areas, including areas of potential environmental concern within project boundaries, and estimates the environmental impacts of a larger project. The study objectives are to:

- Evaluate existing baseline conditions in the Byron Tract project area with respect to the chemical and physical properties of the soils in the dredge material placement areas, the levee soils, and channel water prior to placement or use of dredge material.
- Provide data sufficient to obtain necessary permits to begin the project and any associated construction activities.

- Provide information to regulatory agencies which have jurisdiction over the protection of fish, wildlife, and water quality. These agencies include CVRWQCB, California Department of Fish and Game, U.S. Fish and Wildlife Service, and the U.S. Army Corps of Engineers.

- Generally determine if reuse of the dredge material associated with the project would result in any water quality and/or biological impacts.

Baseline Sampling Plan Summary

General Study Description

This study was designed to obtain information about baseline conditions at the proposed dredge material reuse sites on Byron Tract (Figure 3). This study is intended to supplement previous studies that have been conducted throughout the south Delta by DWR. In 1992, 1994, 1996, and 1997, water, sediment, and soil samples were collected to obtain baseline information for ISDP. In 1995, water and soil were collected from Victoria Island to obtain baseline information on this potential dredge material placement or reuse site. The same information was collected for the Twitchell Island site in 1996. In this project, sampling and chemical analysis of San Joaquin River water (receiving water, both upstream and downstream of the site), Byron Tract agricultural drains, and proposed dredge material placement or reuse sites were conducted.

The following guidance documents were used to develop the sampling plan: *Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario*, Ontario Ministry of the Environment, Canada, June 1992, revised March 1993, and *Testing Guidelines For Dredged Material Disposal At San Francisco Bay Sites*, USACE San Francisco District, Regulatory Branch, Public Notice, Number: 93-2 , February 1, 1993.

BSK Analytical Laboratories analyzed soil as well as tributyltin and sulfides in water. DWR's Bryte Chemical Laboratory analyzed all other water samples, and DWR's Soils and Concrete Laboratory analyzed the soil for grain size.

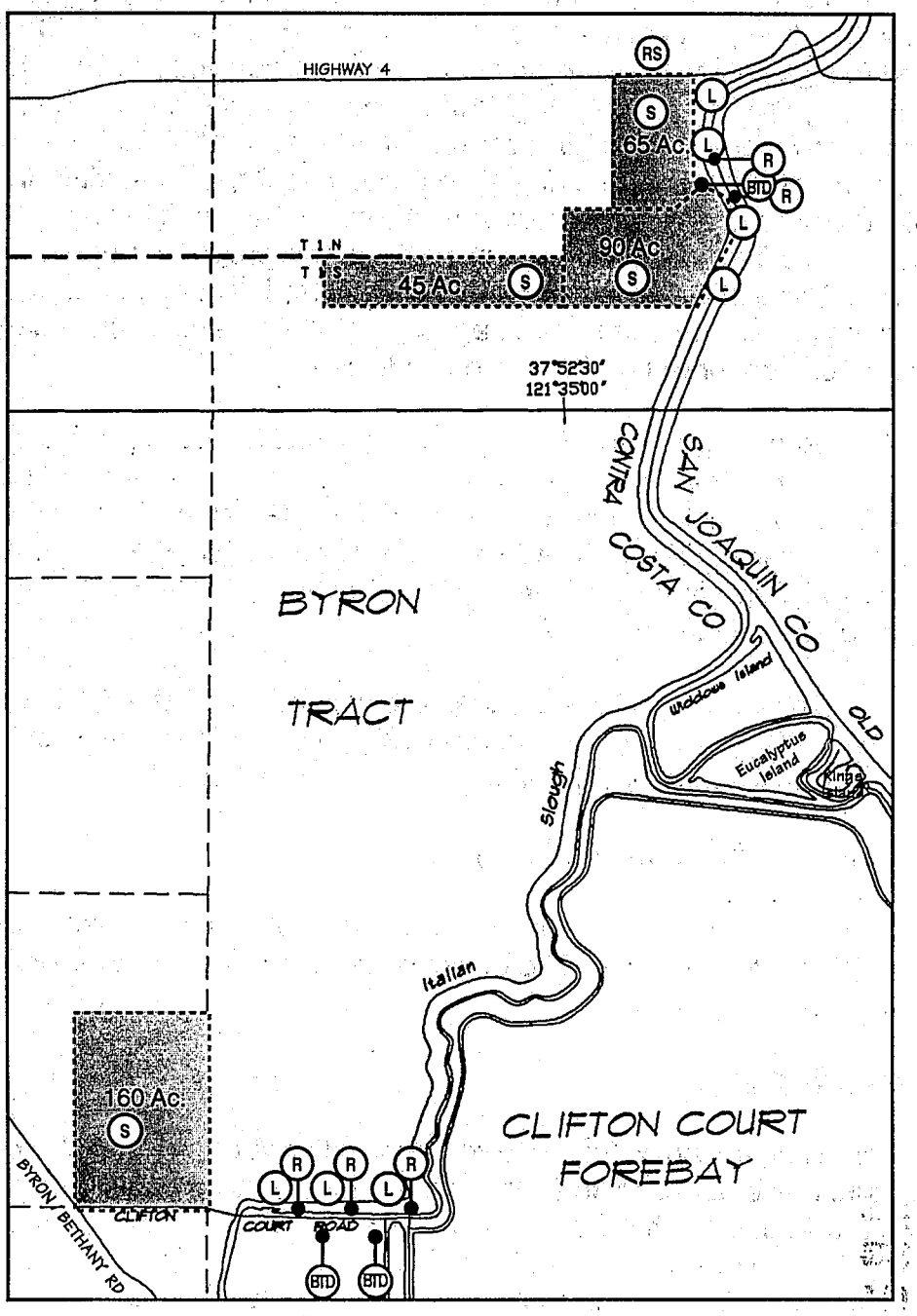
Water Sample Collection and Analysis

Table 1 lists the parameters for water sample analyses, their detection limits, and USEPA method number. The metals analyses include results for dissolved concentrations.

Receiving Waters

Five background water samples were collected during May 1996 from the San Joaquin River adjacent to Byron Tract. The River, hereafter referred to as receiving waters, is the body of water to which the Byron Tract agricultural drain discharges. One sample was collected upstream and one downstream of the Byron Tract agricultural drain in Old River, and three were collected from Italian Slough (Figure 3).

Figure 3
Byron Tract Proposed Spoil Site for Dredged Material



0 — 1 MILES

- BTD Agricultural Drain Water
- L Levee
- R Old River Water
- RS Roadside (HWY 4)
- S Soil

Water samples were taken using a stainless steel 3-gallon bucket with extended handles. The bucket was periodically cleaned and checked to ensure that it was not a source of metals contamination for environmental samples. Samples for dissolved metals analysis were filtered in the field using a 142-millimeter-diameter filter and a 0.45-micron membrane filter.

Water samples were placed in sampling containers supplied by DWR's Bryte Chemical Laboratory and BSK Analytical Laboratories, and each container was labeled with the sample number, sampling date, and location. Samples were stored in an ice chest for transportation back to DWR's Bryte Chemical Laboratory or held in a designated refrigerator for shipment to BSK Analytical Laboratories. This was coordinated so that sample holding times were not exceeded.

Byron Tract Drainage Water

One sample was collected from the drain adjacent to the project site, identified as BTD-1 (discharge to Old River south of Highway 4), and two additional drain samples (BTD-2 and BTD-3) were collected adjacent to Italian Slough, and are shown on Figure 3.

Agricultural drain water samples were generally collected and handled in the same manner as the receiving water samples, although Italian Slough samples in some cases required construction of a specialized sampling device due to difficulty in obtaining the sample.

Soil Samples

Soils were analyzed for parameters listed in Table 2, which also provides the detection limits and USEPA number for the analytical method. The metals analyses include total and soluble concentrations. Soluble metal concentrations, total dissolved solids, pH, and electrical conductivity were determined after performing a Title 22 Waste Extraction Test using deionized water (DI WET).

Island Soils

The soil samples were collected during April-June 1996 at the approximate locations shown on Figure 3. Two sampling areas of Byron Tract were included in the sampling and were located in the northeastern portion of Byron Tract bordered by Highway 4 to the north and Old River to the east, and in the southern portion of Byron Tract bordered by Italian Slough to the east and Clifton Court Road to the south. Background soil samples were taken from the area underlying and adjacent to the area where dredge spoils will be placed. One composite sample was generated from approximately each 20 acres of contiguous site soils.

The northeast sampling area was divided into nine composite soil samples, each consisting of three contiguous subsamples (samples C-1 through C-9), except for one composite sample which consisted of four composite samples. The southern sampling area was also divided into nine composite soil samples, each consisting of three contiguous subsamples (samples C-10 through C-18). A total of 18 composite soil samples was submitted to the laboratory for both areas combined.

All samples were obtained commencing from a depth of 1 foot below the surface after removal of overlying soil and vegetation. Samples were collected using a stainless steel split core sampler and slide hammer or stainless trowels where necessary. Individual samples were composited and homogenized by BSK Analytical Laboratories, and a subsample from each composite sample was taken for analysis. Individual soil samples were labeled and stored until after the analytical results were received and evaluated.

Samples were retained in glass jars, with all containers labeled with the sample number, date, and location. Samples were stored in an ice chest for transportation back to the water quality assessment field facility where individual samples were stored until distribution to contract laboratories. Sample collection, storage, and shipping was coordinated such that sample holding times were not exceeded. Excess sample material was stored until laboratory results were received and the data reviewed.

Levee Soils

Baseline sampling was also conducted on the levee soils. Samples were collected and handled in the same manner as the island soil samples, and were analyzed for the same constituents as the island soils (Table 2). These background levee soil samples were taken from an area underlying and adjacent to the area where dredge materials would be placed. DWR staff sampled levee soils in approximately 1,000-foot intervals, with one composite sample generated from approximately every 3,000 feet of contiguous levee area. As with the soil samples, all samples were obtained commencing from a depth of 1 foot below lowest adjacent grade on the shoulder of the levee.

Two composite levee soil samples were collected in the northeastern sampling area adjacent to Old River (Figure 3). The first composite levee soil sample (LC-1) consisted of three subsamples (L-1 through L-3), with the second composite levee soil sample (LC-2) consisting of two subsamples (L-4 and L-5). One composite levee soil sample (LC-3) was collected in the southern sampling area adjacent to Italian Slough and consisted of three subsamples (L-6 through L-8).

Roadside Soil Samples

Two soil samples (RS-1 and RS-2) were collected south of Highway 4 and south of the large drainage ditch which parallels this road and adjacent to the northeast sampling area. These roadside soil samples were collected and handled in the same manner as the island soil and levee samples, except that they were not composited; they were analyzed as discrete samples.

Quality Assurance/Quality Control

Field Quality Control

Water

USEPA methods for sample collection, preservation, and handling of water were followed. Field quality control samples consisted of duplicates and blanks. One duplicate water sample was collected for the Byron Tract study. Duplicates evaluate the precision of both the sampling and laboratory procedures. In addition to a duplicate, two field blanks were collected: one filtered, one unfiltered. Field blanks are prepared by transferring double distilled water into field sampling containers during the sampling event. Field blanks are used to check for any contamination that may occur in the sampling process. The filtered field blank is used to determine if any contamination occurs during the filtering process (see Table 1 for a list of analytes and reporting limits for the water samples).

Soil

USEPA methods for sample collection, preservation, and handling of soil were followed. Samples were composited and homogenized in the laboratory to ensure a representative and homogenous sample for analysis. Field quality control samples were employed to determine any sampling bias. Field quality control samples consisted of seven equipment blanks. Equipment blanks are used as a qualitative check for contamination that may occur through contact with the sampling equipment. Potential sources of contamination include metal paint from painted equipment and surface corrosion products, as well as residue from previously collected samples. Equipment blanks are made by collecting the distilled water used to rinse sampling equipment prior to sampling. The equipment blanks were sent to Bryte Chemical Laboratory for oil and grease, PCBs and pesticides, and trace metal analysis (see Table 2 for a list of analytes and reporting limits for the soil samples).

Laboratory Quality Control

Laboratory quality control procedures listed in USEPA methods were followed. This included the analysis of the following: laboratory blanks, laboratory control samples, matrix spike samples, duplicate samples, and surrogate analytes where applicable.

Data Quality Assessment

Sample Representativeness

The purpose of this study was to evaluate the baseline water and soil conditions in the proposed island and levee areas. It is not intended to be a comprehensive evaluation of the soil and water quality; it is meant only to define the current conditions and predict possible future project effects. The samples, along with previous sampling data, will provide information that can be used in project planning decisions.

In order for a sampling program to provide valuable information, the samples collected must be representative of environmental conditions. USEPA defines representativeness as "The degree to which the data accurately and precisely represent a characteristic of a population parameter, variation of a property, a process characteristic, or an operational condition."

Several factors make it difficult to provide a thorough characterization of the water and soil quality in the Sacramento-San Joaquin Delta as follows:

- The hydrology of the area is an important consideration, particularly with regard to the primary inputs of water in the Delta--Sacramento and San Joaquin Rivers and their tributaries. Inflows from the Rivers vary seasonally, depending on precipitation as well as SWP releases from Lake Oroville and Central Valley Project releases from Shasta Lake. SWP, CVP, water districts, and more than 1,800 agricultural diversions export a portion of the fresh water entering the Delta. Much of the remaining water flows out through San Francisco Bay to the Pacific Ocean, preventing saline water from the Bay from flowing into the Delta.

- In addition to the above imports and exports, hydrology of the Delta is affected by the ocean tidal cycle. The Delta is part of a tidal estuary, and water levels and direction of flow vary with the ocean tidal cycle.

- Industrial and agricultural activities inside and outside of the Delta also affect Delta water quality. In addition to surface runoff from local cities, the Delta receives discharges from wastewater treatment facilities and industrial sites containing varying amounts of trace elements and organic chemicals. Water for agricultural irrigation is diverted to Delta islands, and the excess is returned to Delta channels. This agricultural drain water often contains high levels of salts and may contain detectable levels of pesticides. In addition, runoff from farms in the Sacramento and San Joaquin Valleys similarly affects Delta water quality.

- Recreational activities are another factor affecting water quality of the Delta. The Delta is a source for many recreational activities including fishing and boating. The impact of these activities on the Delta is unknown and is likely to vary seasonally. The above factors illustrate the dynamic conditions of the Delta. A thorough evaluation of the water quality would require extensive, if not continuous, monitoring of the area.

- Unlike water, soil is less dynamic but in many cases more heterogenous. Variability is inherent in naturally deposited solids such as soils. This natural variability makes it difficult to provide a thorough characterization of the entire project alternative area.

Laboratory Data Validation

A data quality assessment was performed to determine whether the data collected were acceptable for the intended use. Laboratory data were evaluated for precision, accuracy, and comparability. Laboratory methods, procedures, holding times, and quality control sample data were reviewed to assess data quality. Based on the results of the data quality assessment, sample data may be qualified as estimated or questionable if QA/QC results are not acceptable. Estimated or questionable data may or may not be considered acceptable depending on the intended use of the data. In cases where data are to be used for regulatory purposes, such as analyzing drinking water for compliance with maximum contaminant levels, estimated or questionable data are not acceptable. In cases where data are to be used to evaluate general baseline conditions, such as this study, estimated data may be considered acceptable.

Laboratory Control Samples

Laboratory control samples provide information on the accuracy of the sample results. An LCS is prepared by adding a known concentration of method analyte(s) to a clean matrix. Generally, one LCS is prepared for every ten samples, otherwise known as a "batch." No samples analyzed for this project area were considered estimated based on LCS results. Results of the LCS are indicated below in Tables 6 and 7.

Of the 285 LCS analyzed for this report, 10 exceeded either the upper or lower control limits for the analytes, indicating a total of 3.5 percent in exceedance. In Tables 6 and 7, the exceedances are indicated by a positive number for an upper control limit exceedance and a negative number for a lower control limit exceedance. The results are separated by laboratory and by matrix. Results indicate that the data are acceptable based on LCS exceedances because no

matrix spike exceedances were recorded for the analytes in question. If an analyte fails LCS analysis but passes matrix spike analysis, results associated with the analyte in question are acceptable.

Table 6
Laboratory Control Sample Recoveries (Bryte Lab)
Water

Batch#	Analytes	LCL (%)	UCL (%)	LCS Recovery (%)	Exceedance (%)
7/3/96	Silver	85	115	121.7	6.7

Table 7
Laboratory Control Sample Recoveries (BSK & Toxscan Labs)
Soil

Batch#	Analytes	LCL (%)	UCL (%)	LCS Recovery (%)	Exceedance (%)
Ch961707	Anthracene	27	133	5	-22
	Benz(a)anthracene	33	143	25	-8
	Benzo(a)pyrene	17	163	0	-17
	Pyrene	64	106	48	-16
Ch961999	Naphthalene	21	133	19	-2
Ch962000	DOC	90	110	83	-7
	Naphthalene	21	133	19	-2
	Nitrobenzene	35	180	13	-22
Ch962001	Fluorene	59	121	53	-6

Matrix Spikes

Matrix spikes provide information on the accuracy of sample results in an environmental sample. The accuracy of sample results is often less in environmental samples due to matrix interferences. Matrix spikes are prepared by adding a known concentration of method analyte(s) to an environmental sample. Similar to LCS, one matrix spike is generally prepared for every ten samples. Results of matrix spike recoveries are shown below in Tables 8 and 9.

Of the 121 matrix spike recoveries analyzed for this report, 3 (2.4 percent) exceeded either the upper or lower control limits for the analytes. One matrix spike analyzed for USEPA Method 6010 (cadmium, lead, and silver) and two matrix spikes for USEPA Method 200.8 (selenium) had recoveries outside of the laboratory acceptance range. However, the only analyte which also failed the LCS analysis was silver. The environmental results at Byron Tract for silver all indicate levels that are below detection limits. The matrix spike exceedances for selenium are probably due to matrix interferences. Therefore, the results associated with the LCS and matrix spike exceedances are considered acceptable. Tables 8 and 9 show the exceedances indicated by a positive number for an upper control limit exceedance, and a negative number for a lower control limit exceedance. The results are separated by laboratory and by matrix.

Table 8
Matrix Spike Recoveries (Bryte Lab)
Water

Batch#	Analytes	LCL (%)	UCL (%)	LCS Recovery (%)	Exceedance (%)
5/24/96	Silver	85	115	67	-18

Table 9
Matrix Spike Recoveries (BSK)
Soil

Batch#	Analytes	LCL (%)	UCL (%)	LCS Recovery (%)	Exceedance (%)
Ch961999	Selenium (total)	75	125	74	-1
Ch962000	Selenium	75	125	74	-1

Method Blanks

Method blanks are those samples which contain any reagents used in the sample preparation and analysis procedure. The preferred outcome from analysis of method blanks is a less than detectable concentration of the analyte of interest. All method blanks for metals in water samples were performed at Bryte Lab. Analyte concentration levels all indicated a 'pass' status. Method blank results from Bryte Lab are shown below in Table 10.

Table 10
Method Blanks (Bryte Lab)

Analyte	QC Batch #	Concentration	Pass/Fail ?
Arsenic	5/13/96	<0.001	Pass
Chloride	5/14/96	0.42	Pass
Sulfate	5/14/96	0.93	Pass
Mercury	5/15/96	<0.001	Pass
Arsenic	5/16/96	<0.001	Pass
Selenium	5/17/96	<0.001	Pass
Calcium	5/17/96	<0.05	Pass
Potassium	5/17/96	0.01	Pass
Magnesium	5/17/96	<0.05	Pass
Sodium	5/17/96	0.03	Pass
Nitrate	5/21/96	<0.001	Pass
Selenium	5/21/96	<0.001	Pass
Boron	5/22/96	<0.007	Pass
Silver	5/24/96	<0.005	Pass
Cadmium	5/24/96	<0.005	Pass
Chromium	5/24/96	<0.005	Pass
Copper	5/24/96	<0.005	Pass
Lead	5/24/96	<0.005	Pass
Nickel	5/24/96	<0.005	Pass
Thallium	5/24/96	<0.005	Pass
Zinc	5/24/96	<0.005	Pass
Arsenic	6/10/96	<0.001	Pass
Mercury	6/12/96	<0.001	Pass
Arsenic	6/12/96	<0.001	Pass
Mercury	6/26/96	<0.001	Pass
Arsenic	7/10/96	<0.001	Pass

Field Blanks

Field blanks are used to estimate incidental or accidental contamination of a sample during the collection procedure. Field blanks were collected for both the rinsate samples and the channel water samples. Two field blanks were collected for the channel water samples, one filtered and one unfiltered, with one unfiltered sample collected for the rinsate samples. The field blanks were analyzed for metals only, and both filtered and unfiltered blanks had nondetectable results for all metals of interest in this study. Table 11 indicates filtered and unfiltered field blanks analyzed at Bryte Lab.

Table 11
Field Blanks (Bryte Lab)

Sample Number	Analyte	Result	Filtered/Unfiltered
C961004	Arsenic	<0.001	Filtered
C961004	Cadmium	<0.005	Filtered
C961004	Chromium	<0.005	Filtered
C961004	Copper	<0.005	Filtered
C961004	Lead	<0.002	Filtered
C961004	Mercury	<0.001	Filtered
C961004	Selenium	<0.001	Filtered
C961004	Silver	<0.005	Filtered
C961004	Zinc	<0.005	Filtered
C961004	Thallium	<0.002	Filtered
C961004	Nickel	<0.005	Filtered
C961005	Arsenic	<0.001	Unfiltered
C961005	Cadmium	<0.005	Unfiltered
C961005	Chromium	<0.005	Unfiltered
C961005	Copper	<0.005	Unfiltered
C961005	Lead	<0.002	Unfiltered
C961005	Mercury	<0.001	Unfiltered
C961005	Selenium	<0.001	Unfiltered
C961005	Silver	<0.005	Unfiltered
C961005	Zinc	<0.005	Unfiltered
C961005	Thallium	<0.002	Unfiltered
C961005	Nickel	<0.005	Unfiltered

Equipment Blanks

Equipment blanks are used to determine types of contaminants that may have been introduced through contact with sampling equipment. They are prepared by collecting water or solvents used to rinse sampling equipment. For the Byron Tract project, a total of 450 analytes was tested for, of which none indicated detectable traces. A complete list of analytes tested for and results is in Appendix A.

Field Duplicates

Duplicate water samples were collected at site 2 and were analyzed for the same parameters as the study water samples. The results were compared by calculating the relative percent difference. Duplicate results and the RPDs are listed in Table 12.

Table 12
Duplicate Water Sample Results

Site Name		R2	R2 Duplicate	RPD
Sample No.	MDL	C960984	C961013	%
Standard Minerals and Miscellaneous Water Quality Parameters				
Boron	0.1	0.3	0.3	0
Calcium	1	19	19	0
Chloride	1	51	51	0
Dissolved Organic Carbon	0.1	2.8	3	6.90
Dissolved Oxygen		8.4	8.3	1.20
Dissolved Solids	1	229	233	1.73
Dissolved Sulfide	0.1	ND	ND	0
EC (µmhos/cm)	1	405	404	0.25
Fluoride	0.1	ND	ND	0
Hardness	1	92	88	4.44
Magnesium	1	11	10	9.52
pH	0.1	7.3	7.2	1.38
Potassium	0.1	1.8	1.7	5.71
Sodium	1	44	44	0
Sulfate	1	56	56	0
Suspended Solids	1	14	12	15.38
Temperature (°C)		19.9	19.8	0.50
Total Alkalinity	1	55	56	1.80
Total Sulfide	0.1	ND	ND	0
Turbidity (NTU)		14.8	14.5	2.05
Organics				
Pesticides*	0.01-0.2	ND	ND	NA
Trace Elements				
Arsenic	0.001	0.001	0.001	0
Cadmium	0.005	ND	ND	NA
Chromium	0.005	ND	ND	NA
Copper	0.005	ND	ND	NA
Lead	0.005	ND	ND	NA
Thallium	0.002-0.005	ND	ND	NA
Mercury	0.001	ND	ND	NA
Nickel	0.005	ND	ND	NA
Selenium	0.001	0.001	0.001	0
Silver	0.005	ND	ND	NA
Zinc	0.005	0.008	0.007	13

* Includes all pesticides in EPA Method 608 list, units in µg/L.
ND -- Not Detected

As a general rule for field duplicates, an RPD of up to 25 percent is acceptable for inorganics and other miscellaneous water quality parameters such as pH, suspended solids, alkalinity, and pesticide levels. A review of the RPDs for site 2 duplicates indicates that all the parameters have RPDs below 25 percent, and are, therefore, within the acceptable limit.

Holding Times

Holding times for samples are significant for quality assurance/quality control purposes. According to the American Society for Testing and Materials, a holding time consists of "the period of time during which a water sample can be stored after collection and preservation without significantly affecting the accuracy of analysis." A total of 163 holding times were calculated for the Byron Tract project, none of which was exceeded.

Performance Evaluation Samples

In 1996, performance evaluation samples were sent to BSK Analytical Laboratories in order to evaluate the accuracy of testing methods for selected metals, pesticides, and organics in soil samples. A total of 52 analytes was analyzed, of which 11 exceeded acceptance limits or 21 percent of the total. These exceedances are considered to be minimal when one compares the value of the results with the certified values for analytes, and have no direct QC impact on the quality of BSK Analytical Laboratories' laboratory practices and results for the Byron Tract study. Results of the PE samples are shown in Table 13.

Table 13
Byron Tract Soil PE Samples

				Performance Acceptance Limits	
Sample Number	Analyte	Result	Certified Value mg/Kg	LPAL	UPAL
C961214	As	66	65.1	31.9	97
C961214	Cd	85	81.5	40.7	114
C961214	Cr	55.4	57.4	33.9	80.4
C961214	Cu	140	146	88.8	205
C961214	Pb	120	128	68.9	179
C961214	Hg	0.5	23.7	9.98	36.7
C961214	Ni	35	35.8	21.1	51.2
C961214	Se	47	47	24.3	69.5
C961214	Ag	90	85	34	125
C961214	Tl	100	90.8	45.4	139
C961214	Zn	66	76.5	43.6	116
C961215	Aldrin	0.17	0.341	0.194	0.379
C961215	a-BHC	0.16	0.26	0.1	0.296
C961215	b-BHC	0.2	0.318	0.159	0.35
C961215	d-BHC	ND	*	*	*
C961215	g-BHC	ND	0.281	0.173	0.295
C961215	Chlordane	ND	*	*	*
C961215	4,4'-DDD	0.16	0.299	0.14	0.355
C961215	4,4'-DDE	0.11	0.275	0.163	0.316
C961215	4,4'-DDT	0.13	0.397	0.158	0.429
C961215	Dieldrin	0.21	0.329	0.172	0.372
C961215	Endosulfan I	ND	*	*	*
C961215	Endosulfan II	ND	*	*	*
C961215	Endosulfan sulfate	ND	*	*	*
C961215	Endrin	0.13	0.207	0.115	0.246
C961215	Endrin aldehyde	ND	*	*	*
C961215	Heptachlor	0.26	0.395	0.233	0.438
C961215	Heptachlor epoxide	0.14	0.288	0.079	0.285
C961215	Methoxychlor	0.11	0.263	0.129	0.337
C961216	Arochlor 1016	ND	*	*	*
C961216	Arochlor 1221	ND	*	*	*
C961216	Arochlor 1232	ND	*	*	*
C961216	Arochlor 1242	ND	*	*	*
C961216	Arochlor 1248	14	*	*	*
C961216	Arochlor 1254	ND	*	*	*
C961216	Arochlor 1260	ND	*	*	*
C961217	Acenapthene	2	*	*	*
C961217	Acenapthylene	ND	*	*	*
C961217	Anthracene	ND	7.64	1.55	8.02
C961217	Benz(a)anthracene	ND	*	*	*
C961217	Benzo(a)pyrene	ND	*	*	*
C961217	Benzo(a)fluoranthene	ND	*	*	*
C961217	Benzo(k)fluoranthene	ND	6.44	2.74	6.76
C961217	Benzo(ghi)perylene	ND	*	*	*
C961217	Chrysene	0.2	5.3	2.14	5.62
C961217	Dibenz(a,h)anthracene	0.1	*	*	*
C961217	Fluoranthene	0.4	*	*	*
C961217	Fluorene	0.8	*	*	*
C961217	Indo(1,2,3-cd)pyrene	0.1	*	*	*
C961217	Naphthalene	0.7	11.6	4.18	12.4
C961217	Phenathrene	0.8	*	*	*
C961217	Pyrene	ND	4.42	1.43	4.91

*not available

Sample Results and Discussion

Surface Water

Criteria and Standards

Results of the channel water sample analyses were compared to standards for the protection of aquatic life and human health. These include the *California Inland Surface Water Plan* (SWRCB, 1993), which sets water quality objectives for the protection of aquatic life (four-day average) and USEPA and California Department of Health Services Maximum Contaminant Levels for the protection of drinking water. When comparing the results to federal and State MCLs, the more stringent of the two was used. The *California Inland Surface Water Plan* Water Quality Objectives were invalidated in the courts several years ago and was rescinded on September 22, 1994. However, these WQOs have been included for comparative purposes.

It is not known when or if this plan will be adopted as the basis for regulating waste discharges to the inland waters of the State. USEPA is currently in the process of establishing numeric criteria for priority toxic pollutants for California through promulgation of the California Toxics Rule, which will be in effect until such time as the State adopts statewide water quality criteria of its own which comply with the Clean Water Act. The regional water quality control boards are currently enforcing the Clean Water Act through the use of their basin plans.

In some cases, WQOs may be lower than the laboratory reporting level, and a constituent cannot be detected at concentrations low enough to determine compliance with the WQO. CVRWQCB has established a list of acceptable laboratory methods for analyses. If the appropriate method of analysis is used and the laboratory makes a diligent effort to achieve the lowest possible reporting limit, a nondetectable concentration will be considered in compliance, even if the reporting limit is above the WQO. A list of WQOs, CVRWQCB-approved laboratory methods, and MCLs is in Table 3.

Standard Minerals and Miscellaneous Water Quality Parameters

Water samples were analyzed for standard minerals including boron, calcium, chloride, fluoride, magnesium, potassium, sodium, and sulfate, as well as for other miscellaneous water quality parameters including hardness, total alkalinity, pH, total dissolved solids, and specific conductance. The agricultural drainage water had consistently higher concentrations of the above constituents than river samples (Figures 4 through 23).

There are no WQOs for the above parameters, although some of them have primary and/or secondary drinking water MCLs. Only the drinking water MCL for turbidity was exceeded for the river water samples, while several primary and secondary MCLs were exceeded for the agricultural drain samples.

Trace Metals

All water samples were analyzed for trace metals including arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Metals were below detectable concentrations in all samples except for arsenic, nickel, and zinc (Figures 24 through 29). As with the mineral analysis, agricultural drain water showed significantly higher concentrations of the detected metals when compared to the river sites. None of the detected metals exceeded its respective WQO or primary or secondary drinking water MCLs in the river water, although some were exceeded in the agricultural drain water samples.

Island and Levee Soil Criteria and Standards

With the exception of the California Total Threshold Limit Concentration and Soluble Threshold Limit Concentration, no enforceable federal or State soil quality standards exist (Table 4). In an attempt to evaluate soil data quality with respect to its intended use, the data were compared to the California TTLC and STLC, as well as to nonenforceable California criteria. The use of nonenforceable criteria does not constitute an endorsement of these criteria by DWR. They are used only as a point of reference for evaluation of ISDP soil data. The applicability of the criteria with respect to intended use was evaluated prior to use in this study. In general, results were compared to the most stringent or conservative values. DWR staff concludes that the intended use of these criteria is consistent with the objectives of this study. A list of the criteria and a short description of each are given in Table 4.

The San Francisco Bay Regional Water Quality Control Board interim sediment screening criteria were developed to facilitate beneficial reuse of dredged materials. The criteria are used to evaluate potential for water quality impacts from placement or use of the sediment near a water body, such as use of dredged material for levee maintenance. The criteria are defined as the maximum concentrations of constituents in dredged sediment acceptable for the designated use. However, the sediment testing results are evaluated on a case-by-case basis. Such sediment criteria are only generally applicable to island soils, since island and levee soil samples will not be placed on the levee, and island soils will only be in contact with water that will be discharged to the channel.

In addition to the above criteria, CVRWQCB *Draft General Order Waste Discharge Requirements for Dredging Activities Associated with Maintenance and*

New Construction Projects in the Delta was used as a guidance document. The General Order Waste Discharge Requirements document is being developed for maintenance dredging activities in the Sacramento-San Joaquin Delta and is currently in draft form and is not enforceable. Total Maximum Values are given for constituents of concern for both dryside and waterside of levee disposal. For this study, the draft TMV for dryside levee disposal was used. Two Soluble Maximum Values are provided, one for discharge of decant water to the river and one without discharge to the river. Although these values apply to the dredged sediment itself and not to soils where dredged material will be either placed or used, they are included for general reference purposes.

Island Soil Samples

Physical Analysis

A grain-size distribution and soil classification was conducted for all samples. A summary of the soil classification results is presented in Table 5. Most samples were classified as either fine-grained or peat soils, with some silty sand soils also present. Additional tests were not conducted to further classify the fine-grained materials.

Grain-size distributions for the samples are shown in Figures 30 through 34. Grain size was not determined for composite samples C-1 through C-9 because these are primarily organic peat soils with little significant mineral structure present. The texture of these soils is generally very fine, and they can often have a powder-like consistency, particularly when dry.

All island soil samples were analyzed for specific conductance, with results ranging from 59 to 1800 µmhos/cm (Figure 35). The sites were also analyzed for moisture concentration, which ranged from 6.6 to 52 percent (Figure 36).

Acid-forming Potential

Measurements of acid-forming potential and acid-neutralizing potential were conducted on samples from all sites. These results can be used to predict the capability of a sediment to neutralize acids that may be generated. The acid-forming potential is a measurement of the acid-producing forms of sulfur. These forms of sulfur are available to be converted to sulfuric acid (H_2SO_4). The neutralizing potential is a measure of the neutralizing bases, such as carbonates, present in the soil.

The acid-generation potential is determined by dividing the measured acid-neutralization potential by the acid-forming potential (N/A ratio). A quotient of one indicated that the two potentials are equal and, theoretically, the soil can neutralize all the acid produced. CVRWQCB has set an N/A quotient of 3 for determining if a soil will become acidic. If the ratio is greater than 3, the likelihood that the sediment will become acidic is low. The criterion of 3 was selected to account for the greater leachability of the neutralizing minerals as compared to the acid-forming minerals and to account for the uneven distribution of these minerals.

Composite samples from sites C-1 through C-9 (peat soils) had ratios below 3 (Figure 37). All remaining sites had N/A ratios ranging from 4 to 27.

Organic Analysis

Island soil samples were analyzed for several organic constituents including phthalate esters, polycyclic aromatic hydrocarbons, polychlorinated biphenyls, and chlorinated pesticides (Table 2). Only samples C-4 and C-5 had detectable levels of DDT at 0.012 mg/kg (dry) and 0.014 mg/kg (dry), respectively. All other results were nondetectable.

All soil samples were analyzed for volatile solids, total organic carbon and total oil and grease. Volatile solids in the soils ranged from 9.1 to 68 percent (Figure 38). The total volatile solids analysis provides a rough approximation of the amount of organic matter in the sediment. This indicates that the island soil has a range of approximately 9 to 68 percent organic matter in the soil.

Total organic carbon concentrations ranged from 1,800 to 310,000 mg/kg wet weight (Figure 39). Total oil and grease concentrations ranged from 0 to 466 mg/kg dry weight (Figure 40).

Total Trace Metals

Metals were found in detectable concentrations in most samples (Figures 41 through 48). Arsenic was detected at all sites with concentrations ranging from 3.9 to 28 mg/kg dry weight (Figure 41). No concentrations exceeded draft TMV of 33 mg/kg dry weight (same as the SFRWQCB value). No samples exceeded TTLC of 500 mg/kg wet weight.

Chromium was detected in all samples, with concentrations ranging from 18 to 84 mg/kg dry weight (Figure 42). One sample (C-5) exceeded the draft TMV of 80 mg/kg dry weight. All other samples were below draft TMV, and all samples were below SFRWQCB and TTLC criteria.

Copper was found in detectable concentrations in all samples. Concentrations ranged from 12 to 69 mg/kg dry weight (Figure 43). None of the criteria was exceeded.

Lead was detected in all samples. Concentrations ranged from 10 to 159 mg/kg dry weight (Figure 44). Only the TMV criteria was exceeded only by composite sample C-5.

Nickel was found in all samples at concentrations ranging from 20 to 86 mg/kg dry weight. Only one sample, LC-2, did not exceed the draft TMV of 30 mg/kg dry weight, while all others did (Figure 45). No sites exceeded SFRWQCB or TTLC criteria.

Selenium was detected in several samples with concentrations ranging from 0.47 to 1.97 mg/kg dry weight (Figure 46). Five samples exceeded the draft TMV of 0.7 mg/kg dry weight. No other criteria were exceeded.

Silver was detected in several samples with concentrations ranging from 0.12 to 4.74 mg/kg wet weight (Figure 47). Three samples exceeded the SMV and SFRWQCB criteria of 1 mg/kg.

Zinc was detectable in all samples. Concentrations ranged from 50.8 to 115.1 mg/kg dry weight (Figure 48). None of the applicable criteria was exceeded.

Soluble Metal Results

Soluble metal analyses were performed on all soil samples (Figures 49 through 56). Samples were extracted using the Waste Extraction Test from Title 22 of the California Code of Regulations. WET was performed using deionized water in place of citric acid. The extracts from the WET test were analyzed for metals.

Soluble arsenic was detected in several samples with concentrations ranging from 0.002 to 0.025 mg/L (Figure 49). No samples exceeded either the Soluble Maximum Value without river discharge (0.5 mg/L) or the SMV with river discharge (0.05 mg/L). No samples exceeded the STLC.

Soluble chromium was detected in several samples with concentrations ranging from 0.005 to 0.021 mg/L (Figure 50). Two samples exceeded the SMV with river discharge (0.016 mg/L). No samples exceeded the SMV without river discharge (0.5 mg/L) or the STLC.

Soluble copper concentrations were found in samples ranging from 0.007 to 0.02 mg/L (Figure 51). All positive samples exceeded the SMV with river discharge

value (0.0054 mg/L), although none exceeded the SMV without river discharge (10 mg/L) or the STLC values.

Soluble lead was detected in concentrations ranging from 0.005 to 0.012 mg/L (Figure 52), with only the SMV with discharge to river value exceeded. Detectable values were below all other criteria.

Soluble nickel was detected at concentrations ranging from 0.006 to 0.14 mg/l (Figure 53), with only one sample exceeding the SMV with river discharge value of 0.1 mg/L. No other criteria were exceeded.

Soluble selenium was determined in only sample C-10 at a concentration of 0.004 mg/L, which did not exceed any criteria.

Soluble zinc was detected in all samples, with concentrations ranging from 0.23 to 0.42 mg/L (Figure 54). Most samples exceeded SMV with river discharge value of 0.054 mg/L. No other criteria were exceeded.

All sample extracts were analyzed for total dissolved solids. TDS values ranged from 70 to 1,600 mg/L (Figure 55). These values are significantly higher than channel water samples but lower than the agricultural drain samples.

All soil extracts were also analyzed for pH. Soluble pH concentrations ranged from 4.5 to 9.1 pH units (Figure 56). The CVRWQCB General Order has minimum and maximum effluent limitations of 6.5 and 8.5 pH units. Of the 23 samples collected, 11 were below the lower limit, 8 were within the allowed range, and 4 were above the upper limit.

Levee and Roadside Soil Sample Results

Physical Analysis

As with the island soil samples, a grain-size distribution and soil classification was conducted for all levee and roadside soil samples. A summary of the soil classification results is presented in Table 5. In general, as with the island samples, all samples were classified as either silty sand or fine-grained material. Additional tests were not conducted to further classify the fine-grained materials. Grain-size distributions for individual samples are shown in Figures 30 through 34.

As with island samples, specific conductance was also analyzed, and the results ranged from 59 to 1,800 µmhos/cm (Figure 35). The samples were also analyzed for percent moisture, with the results ranging from 6.6 to 25 percent (Figure 36).

Acid-forming Potential

Measurements of acid-forming potential and acid-neutralizing potential were conducted on all levee and roadside samples. These results can be used to predict the capability of a sediment to neutralize acids that may be generated. The neutralizing potential is a measure of the neutralizing bases, such as carbonates, present in the soil.

The acid-generation potential (N/A ratio) is determined by dividing the measured acid-neutralization potential by the acid-forming potential. A quotient of 1 indicated that the two potentials are equal; theoretically, the soil can neutralize all the acid produced. CVRWQCB has set an N/A quotient of 3 for determining if a soil will become acidic. If the ratio is greater than 3, the likelihood that the sediment will become acidic is low.

The N/A ratio for the levee samples ranged from 4 to 25, with the roadside samples being 0.36 and 0.67 (Figure 37). The N/A ratios for both roadside samples were less than CVRWQCB's minimum guideline of 3.

Organic Analysis

Levee and roadside soil samples were analyzed for the same constituents as the island samples, including phthalate esters, polycyclic aromatic hydrocarbons, polychlorinated biphenyls, and chlorinated pesticides (Table 2). All results were nondetectable.

As with island soil samples, all levee and roadside samples were analyzed for volatile solids, total organic carbon, and total oil and grease. Volatile solids in the levee samples ranged from 9.1 to 25 percent, with the roadside samples being 31 and 44 percent (Figure 38).

Total organic carbon concentrations for the levee samples ranged from 1,900 to 11,000 mg/kg wet weight, with the roadside samples being 67,000 and 77,000 mg/kg wet weight (Figure 39). Total oil and grease was detected in one levee sample at 25 mg/kg dry weight and in one roadside sample at 387 mg/kg dry weight (Figure 40).

Total Trace Metals

As with the island soil samples, metals were found in detectable concentrations in most levee soil samples. Chromium, copper, lead, and zinc were detected in all samples.

Arsenic was detectable in all levee samples ranging from 8.1 to 11 mg/kg dry weight and in the two roadside samples at 8.6 and 13 mg/kg dry weight (Figure 41). None of the criteria was exceeded.

Chromium was detected with concentrations ranging from 18 to 48 mg/kg dry weight in the levee samples and at 51 and 59 mg/kg dry weight in the two roadside samples (Figure 42). No criteria were exceeded.

Copper concentrations ranged from 12 to 44 mg/kg dry weight in the levee samples, and in the roadside samples was 55 and 63 mg/kg dry weight (Figure 43). No criteria were exceeded.

Lead concentrations in the levee samples ranged from 12 to 16 mg/kg dry weight, with the roadside samples having concentrations of 14 and 17 mg/kg dry weight (Figure 44). No criteria were exceeded.

Nickel was detected at all sites, with concentrations ranging from 20 to 52 mg/kg dry weight in the levee samples and were 69 and 86 mg/kg dry weight in the roadside samples (Figure 45). Two levee and both roadside samples exceeded the draft TMV of 30 mg/kg dry weight.

Selenium was found at a detectable concentration in one levee sample at 1.23 mg/kg dry weight and was not detected in either roadside sample (Figure 46). This value exceeded the TMV of 0.7 mg/kg dry weight.

Mercury was detected in only sample LC-2 at a concentration of 0.107 mg/kg dry weight, which did not exceed any applicable criteria on Table 4.

Zinc was detected at concentrations of 54 to 95 mg/kg dry weight in the levee samples, and at 115 and 73 mg/kg dry weight in the roadside samples (Figure 48). No criteria were exceeded.

Soluble Metal Results

In the same manner as the island soil samples, the levee and roadside soil samples were extracted using a DI WET and the extract analyzed for trace metals,

TDS, and pH. Cadmium, mercury, selenium, silver, and thallium were not detected in any of the soil extract samples.

Soluble arsenic was determined in one levee and one roadside sample at 0.006 mg/L (Figure 49). No samples exceeded any criteria.

Soluble chromium was detected in one levee sample at 0.014 mg/L and in one roadside sample at 0.006 mg/L (Figure 50). No criteria were exceeded.

Soluble copper was found in two levee samples at 0.008 and 0.012 mg/L and in one roadside sample at 0.01 mg/L (Figure 51). All of the samples exceeded SMV with discharge to the river (0.054 mg/L). None of the samples exceeded STLC.

Soluble lead was detected in one levee sample at 0.008 mg/L (Figure 52). This sample exceeded SMV with river discharge (0.00099 mg/L) but did not exceed STLC.

Soluble nickel was detected in all levee samples ranging from 0.008 to 0.014 mg/L and in both roadside samples at 0.14 and 0.038 mg/L (Figure 53). No samples exceeded SMV without river discharge (1 mg /L). One roadside sample exceeded SMV with river discharge (0.1 mg/L). STLC was not exceeded.

Soluble zinc was found in all levee samples at concentrations ranging from 0.023 to 0.16 mg/L and in both roadside samples at concentrations of 0,064 and 0.06 mg/L (Figure 54). Two levee samples and both roadside samples exceeded SMV with river discharge (0.054 mg/L) as well as WQO (0.049 mg/L). No samples exceeded SMV without river discharge (50 mg/L) or STLC.

Total dissolved solids concentrations in the levee soil sample extracts ranged from 70 to 1600 mg/L and was 250 and 340 mg/L in the two roadside samples (Figure 55).

pH values below the minimum CVRWQCB guideline (6.5 pH units) for discharge to surface water were determined in both roadside samples, with all levee samples within the allowable range of pH 6.5 to 8.5 (Figure 56).

As with island soil samples, levee and roadside soils were analyzed for soluble specific conductance. Results from sample extracts ranged from 59 to 1,800 µmhos/cm for the levee soils and were 580 and 640 µmhos/cm for the two roadside samples (Figure 35).

Conclusion

There are two possible concerns associated with the dredge material placement or use activities of ISDP: (1) the potential for contamination of surface water, and (2) the potential for contamination of groundwater. The primary concern with placement or use of dredge material on the island and levees is the potential release of constituents from the dredge material into the effluent discharged back to the river, or the potential leaching of constituents to the soil or groundwater in the dredge material placement or use areas.

Trace metals were found in detectable concentrations in most of the island and soil samples. There were no soil samples having concentrations exceeding either SFRWQCB criteria or TTLC values, which means that soils in the dredge material placement and use areas are not considered hazardous waste. Few samples had results which exceeded their TMVs. However, the majority of detectable concentrations for nickel were found to exceed TMV in the island, levee, and roadside soil samples.

Similar to total metal results, none of the detected concentrations of soluble trace metals exceeded STLC values. No soluble results were found to exceed SMV without discharge to the river; however, a few metals were found in concentrations exceeding SMV with discharge to the river. Soluble copper was detected in several island, levee, and roadside soil samples, with all concentrations exceeding SMV for discharge to the river.

All of the samples obtained from the dredge material placement area near Highway 4 and both roadside samples had soluble pH concentrations below the CVRWQCB lower guideline of 6.5. The N/A ratios of these samples are also below the CVRWQCB minimum ratio of 3.

Samples were analyzed for several synthetic organic compounds and, with two exceptions, all results were not-detectable. The two detectable concentrations were significantly below all applicable criteria.

Comparison of the soil sample results with criteria from CVRWQCB, SFRWQCB, and California Hazardous Waste Regulations indicates that the soils are of acceptable quality for the intended use. Review of the results also indicates that potential leaching of the effluent through the island and levee soils is not likely to affect groundwater. Although nearly all island, levee, and roadside soil samples had total nickel concentrations above TMV, only one roadside sample had soluble nickel concentrations above SMV. While no soil samples had copper concentrations above SMV, all samples having detectable soluble copper concentrations were above SMV with discharge to the river. Where only one

sample had a lead concentration above TMV, all samples having detectable soluble lead concentrations were above SMV with discharge to the river.

Discharge of the effluent from the settling ponds back into the water of Old River will be subject to monitoring and will be conducted in such a manner that exceedance of water quality standards or Waste Discharge Requirements will be unlikely. Groundwater quality monitoring may also be conducted.

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Appendix A

Figures 4 to 56

Figure 4. Boron Concentrations in Water Samples

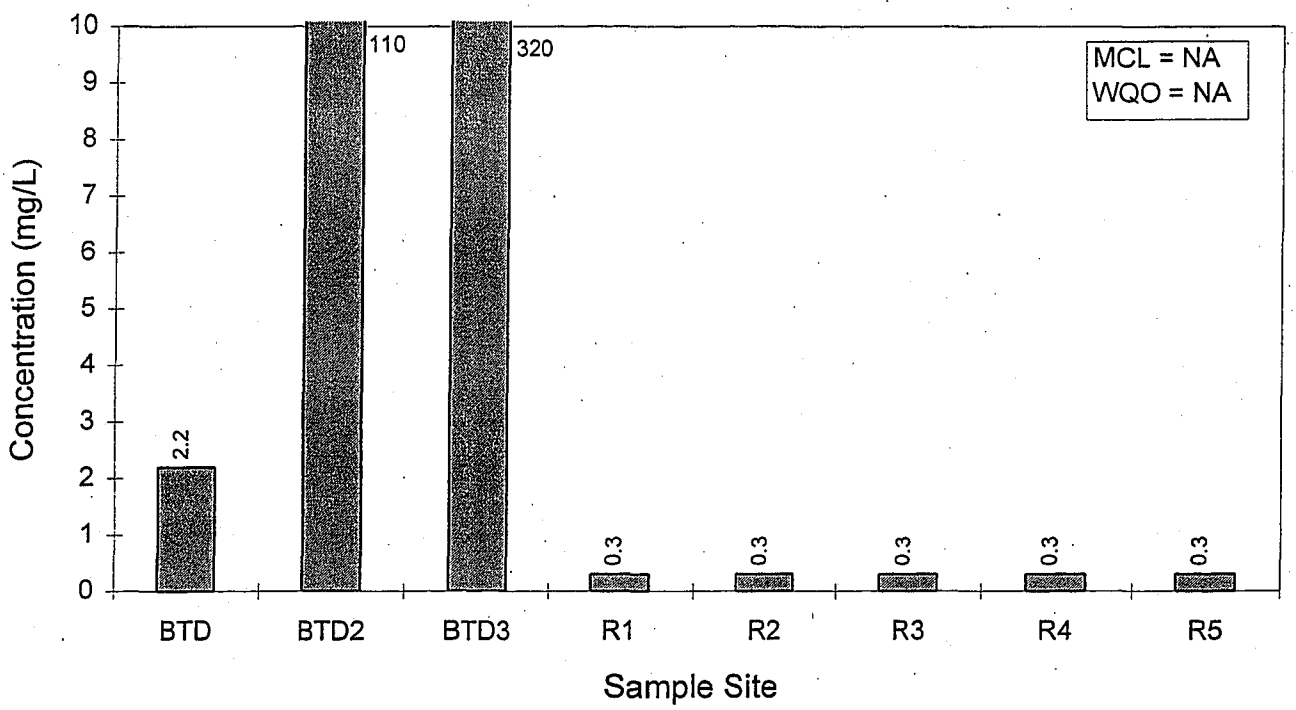


Figure 5. Bromide Concentrations in Water Samples

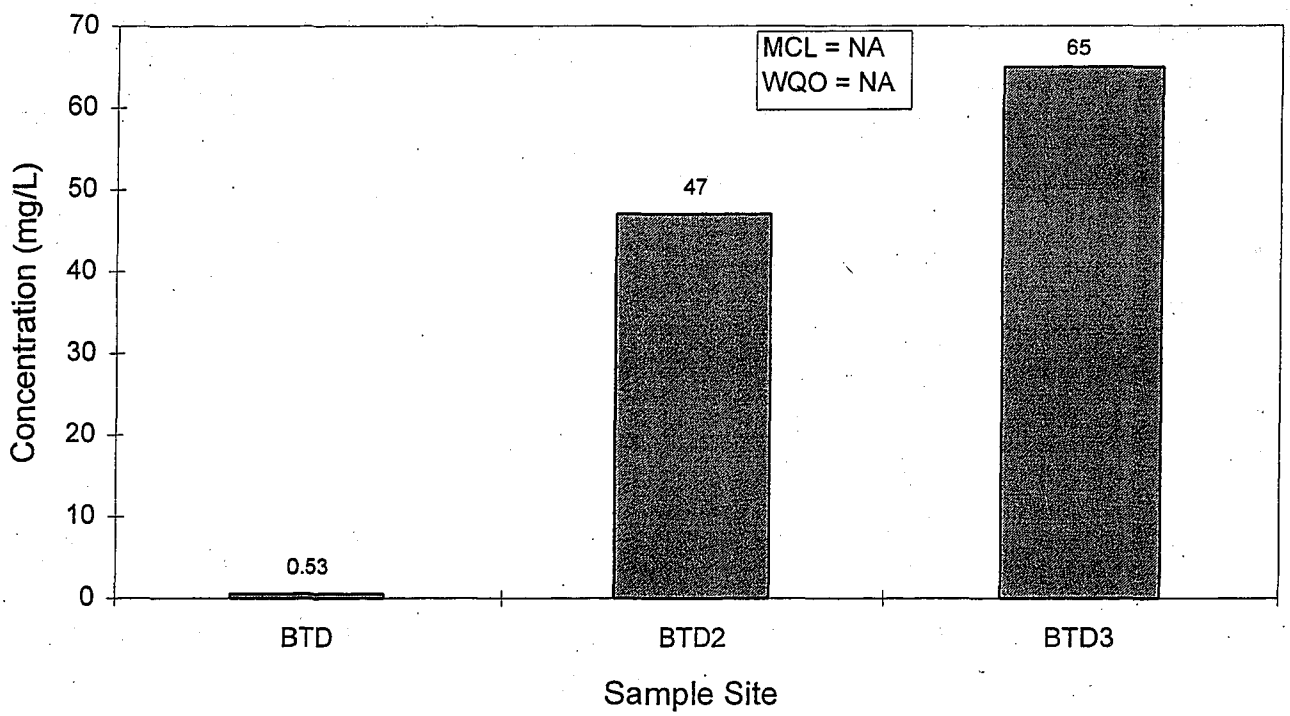


Figure 6. Calcium Concentrations in Water Samples

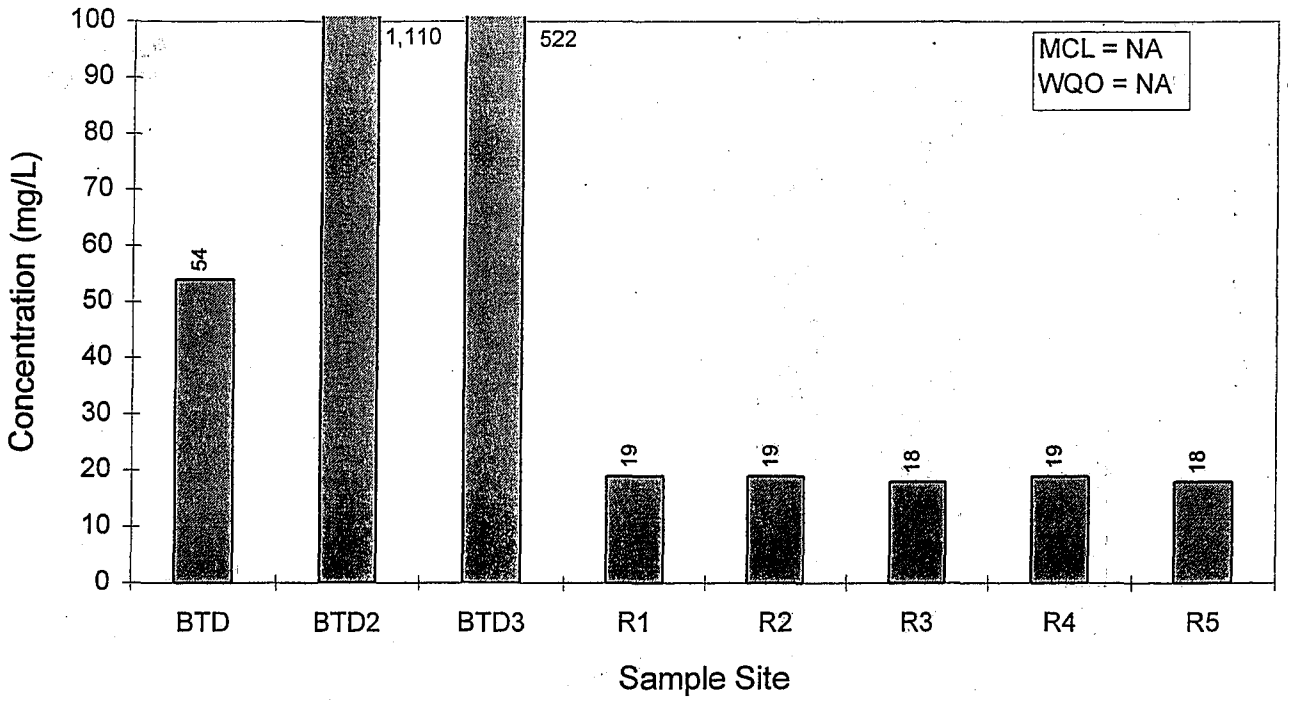
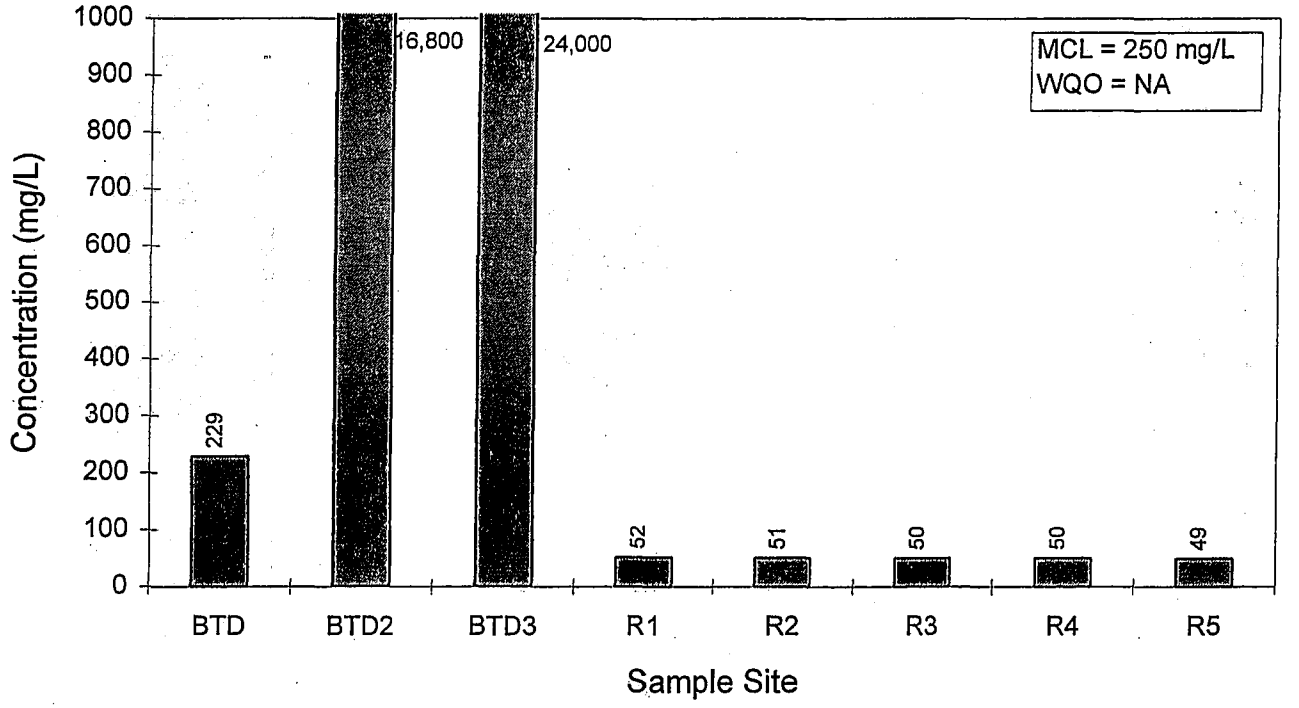
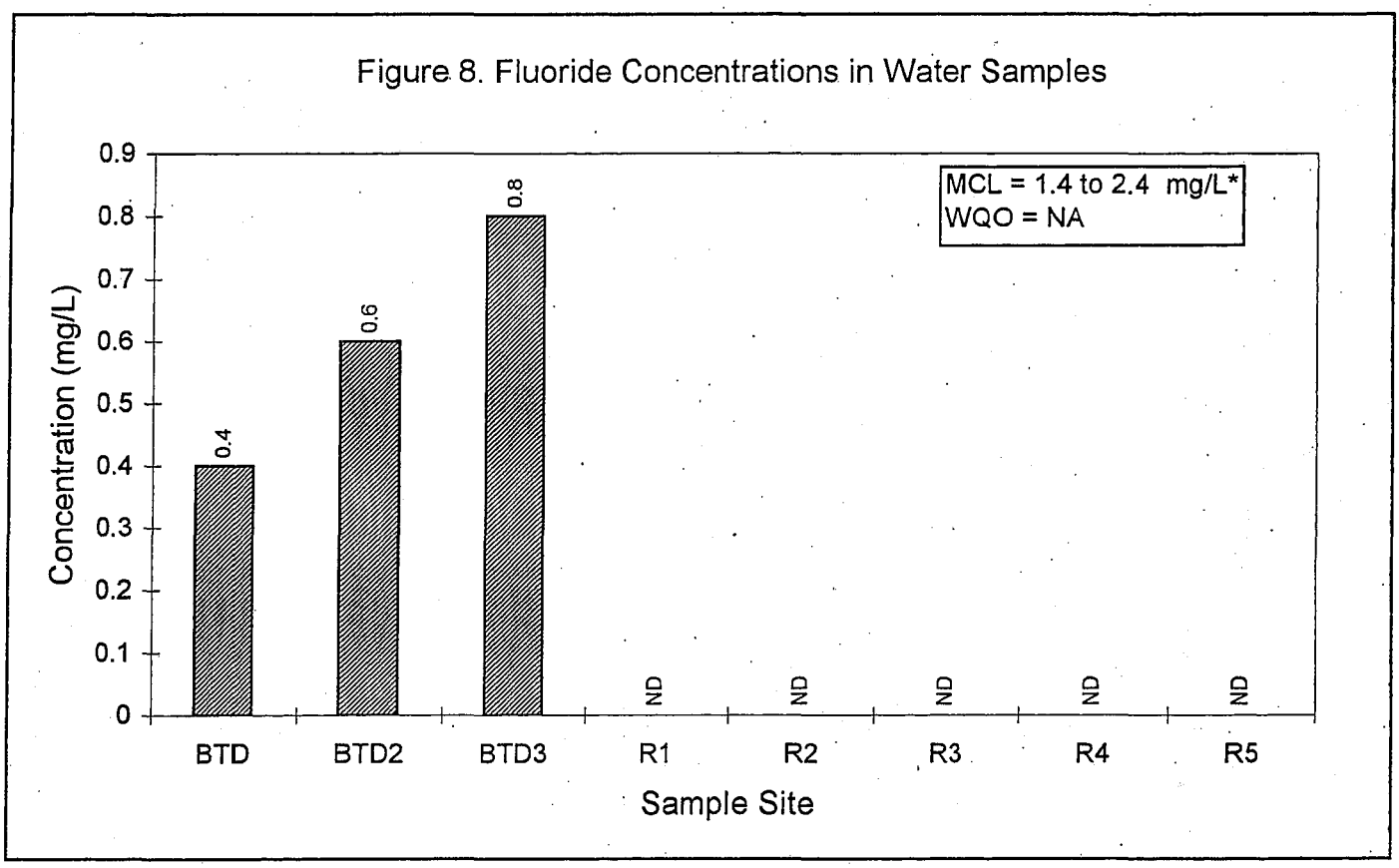
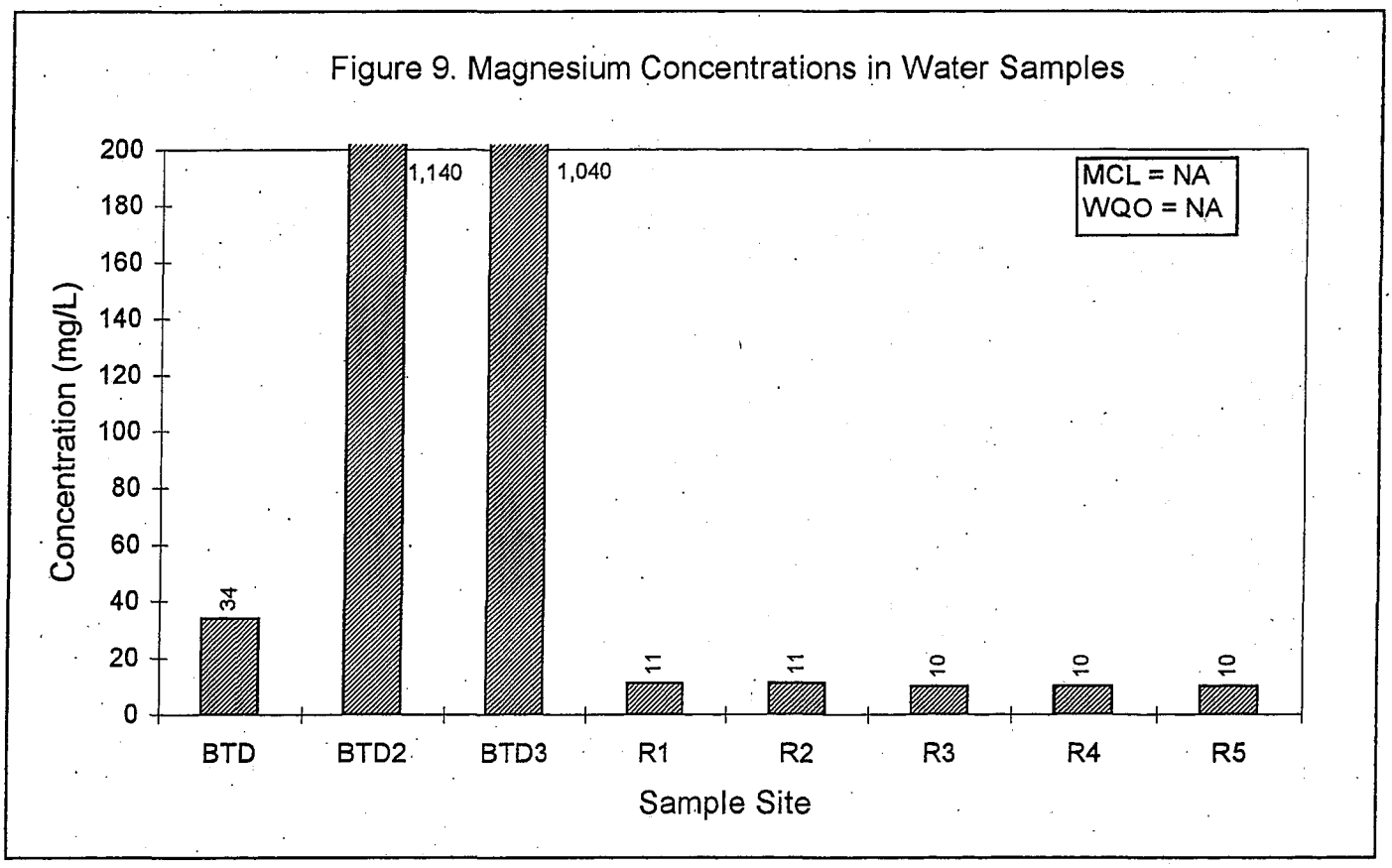


Figure 7. Chloride Concentrations in Water Samples







*Depends on annual average of maximum daily air temperatures.

Figure 10. Potassium Concentrations in Water Samples

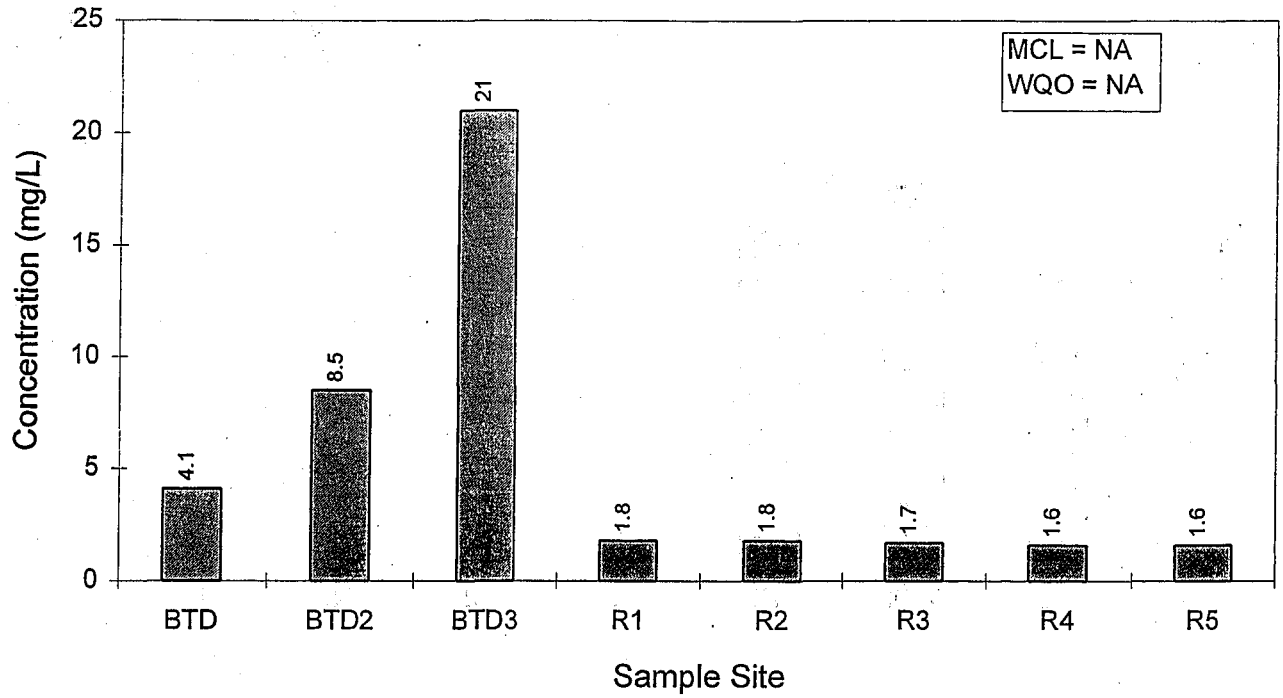


Figure 11. Sodium Concentrations in Water Samples

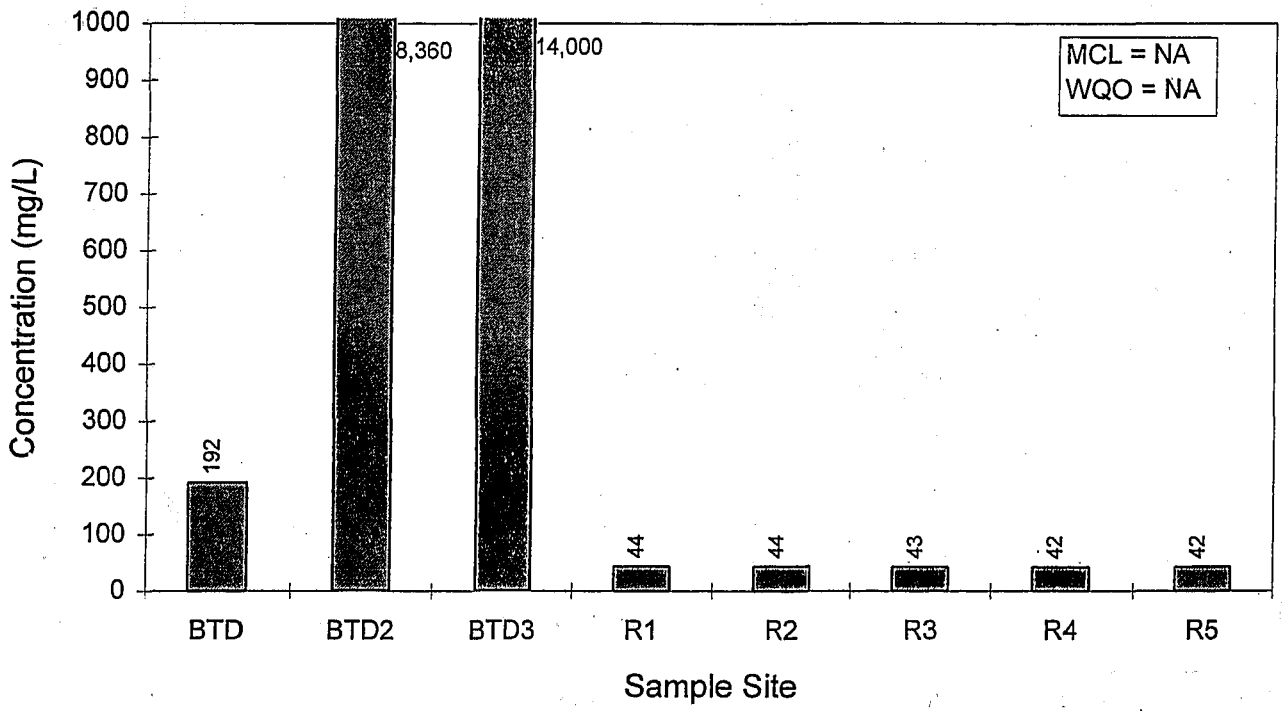


Figure 12. Sulfate Concentrations in Water Samples

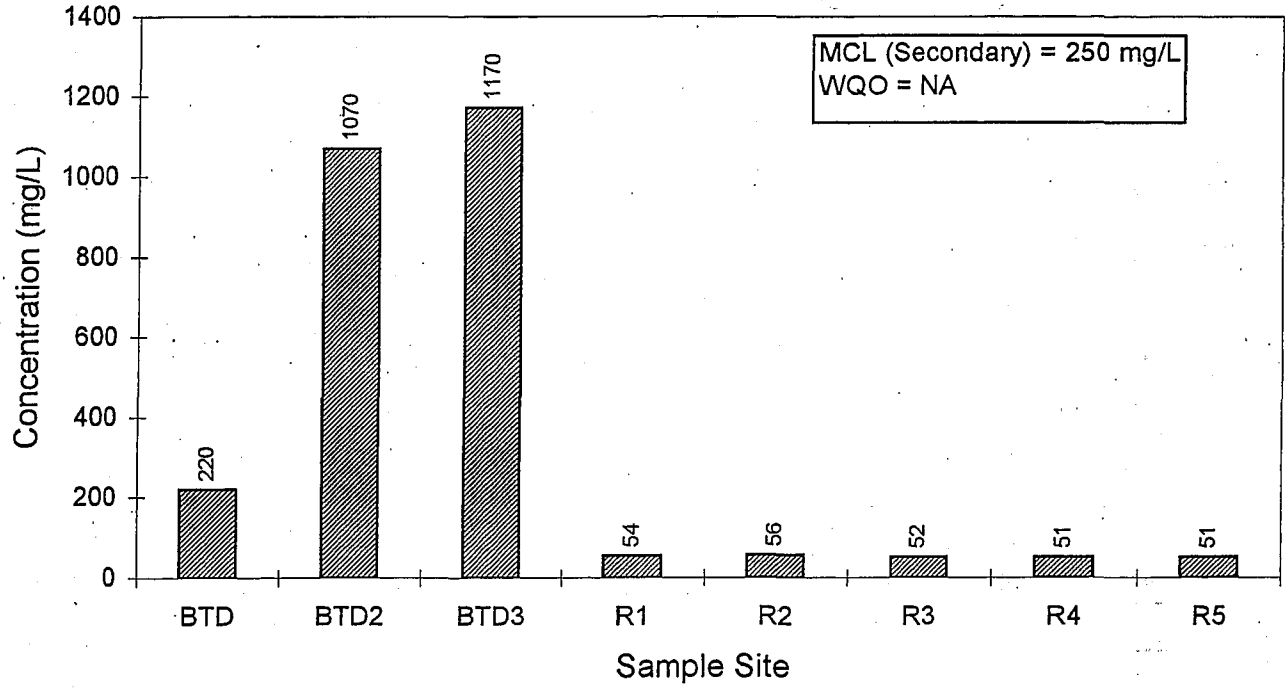


Figure 13. Dissolved Sulfide Concentrations in Water Samples

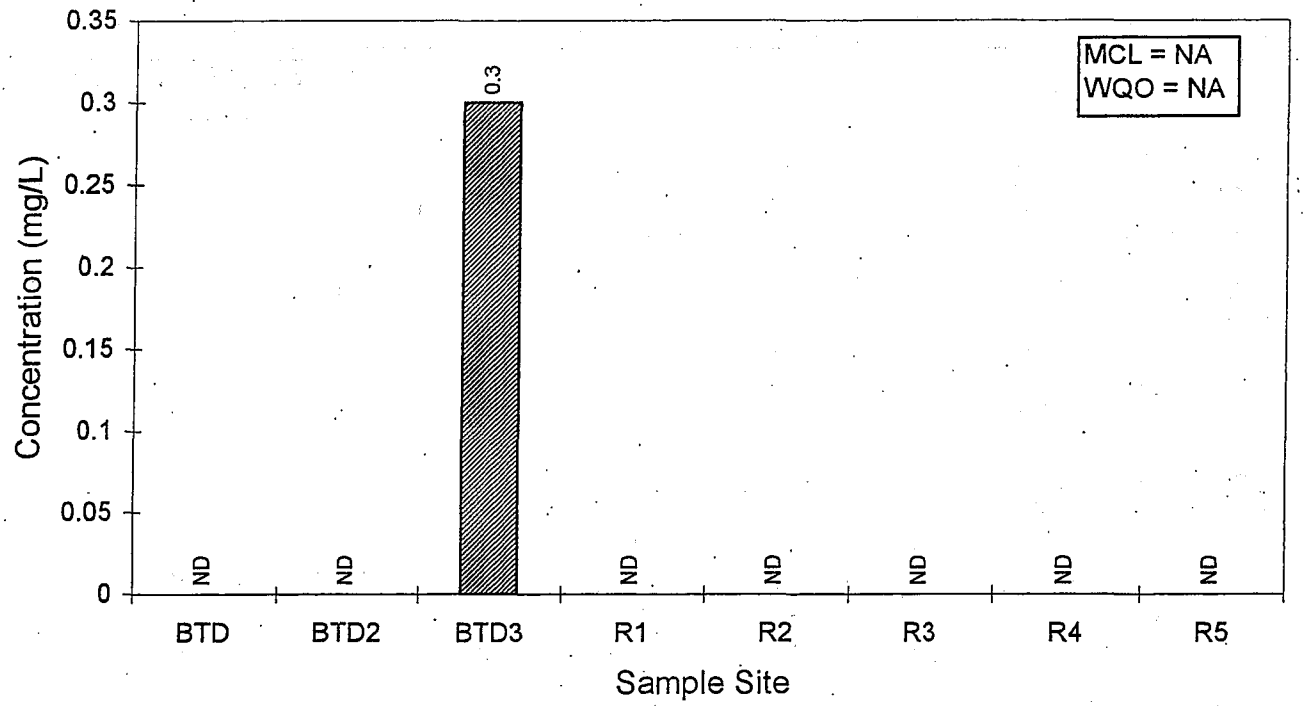


Figure 14. Total Sulfide Concentrations in Water Samples

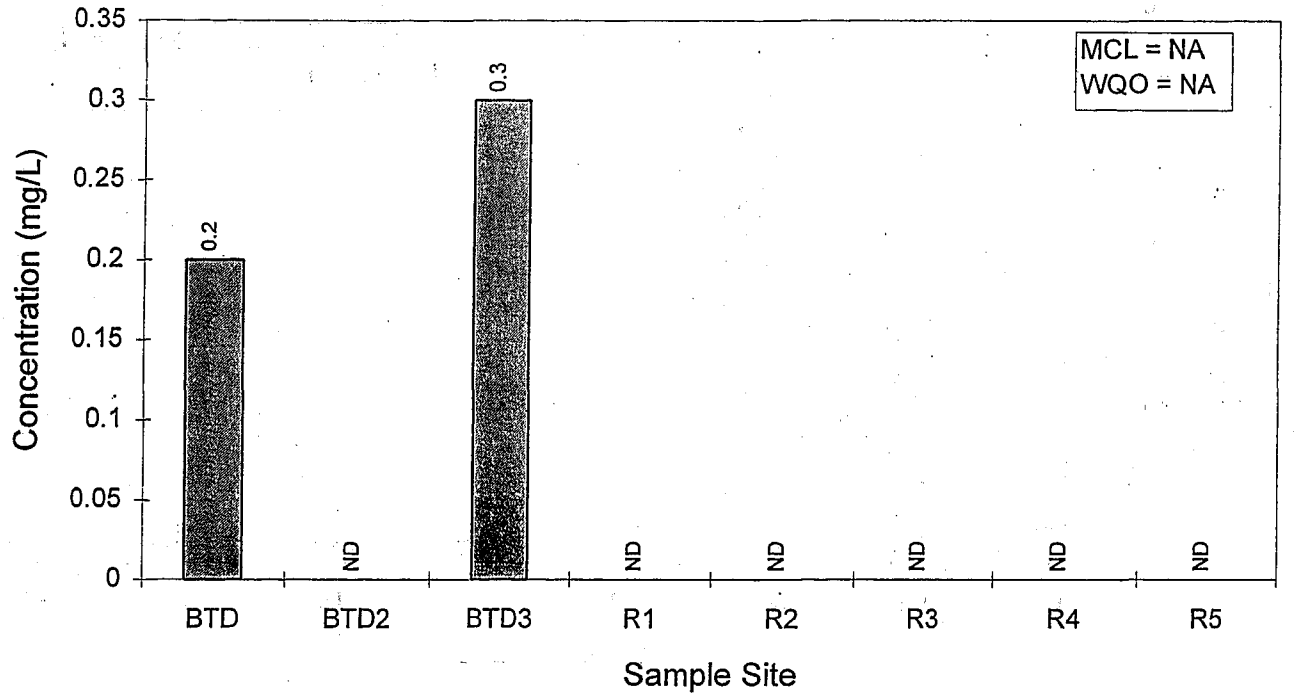


Figure 15. Turbidity Concentrations in Water Samples

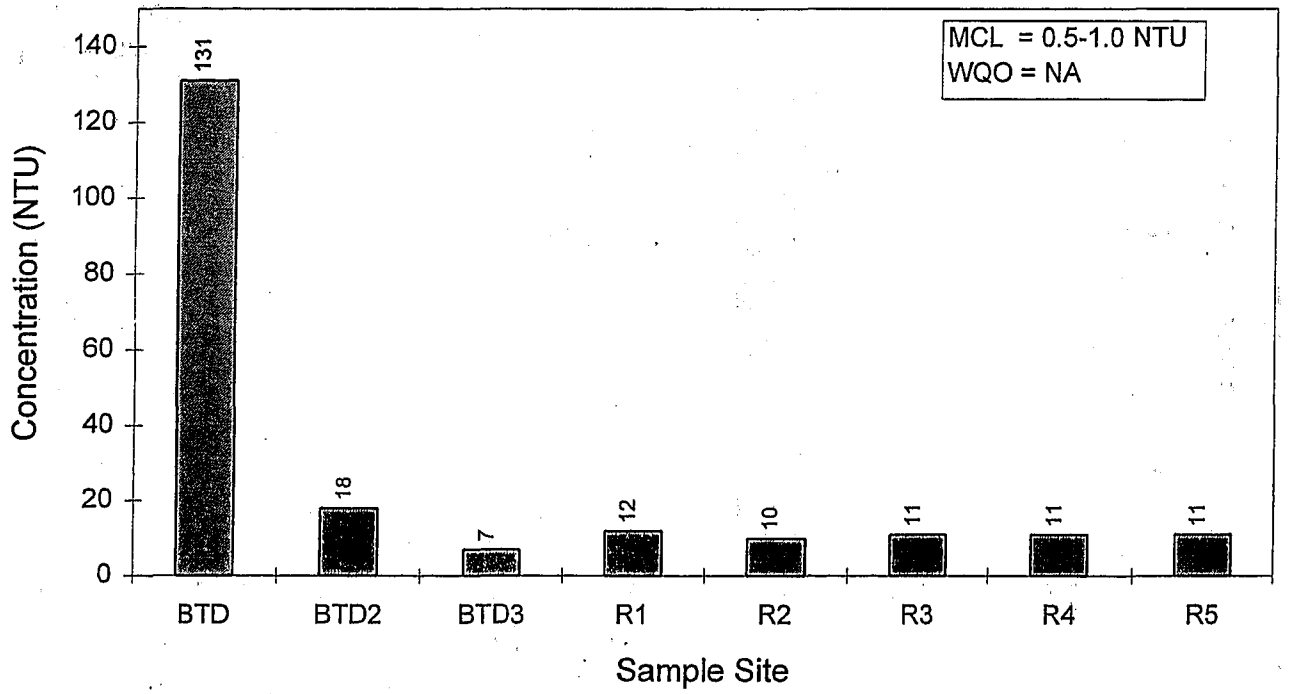


Figure 16. Suspended Solids Concentrations in Water Samples

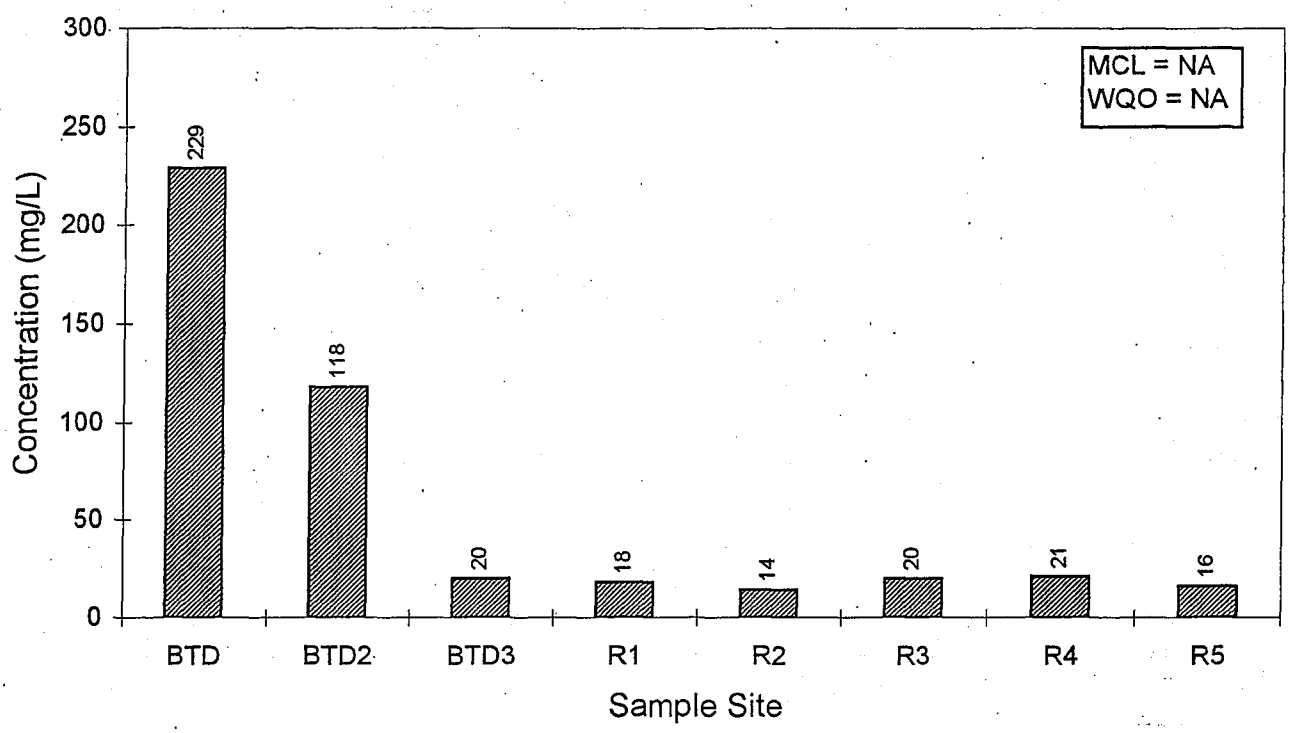


Figure 17. Specific Conductance Concentrations in Water Samples

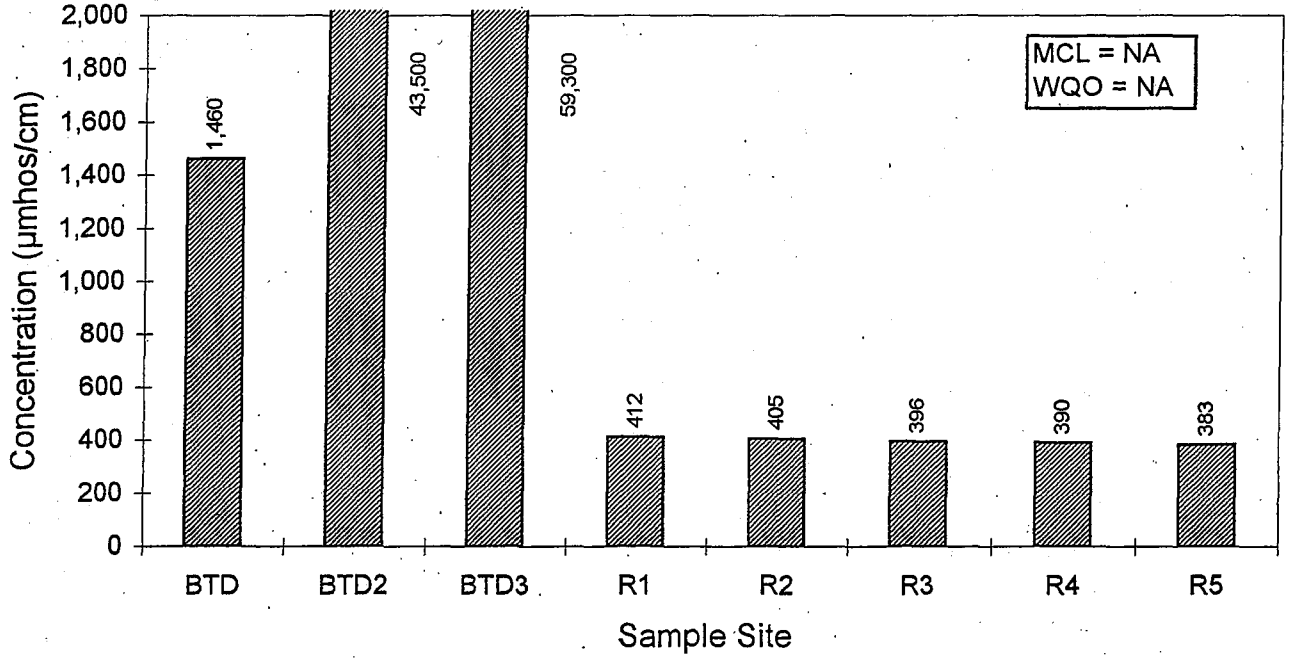


Figure 18. Dissolved Organic Carbon Concentrations in Water Samples

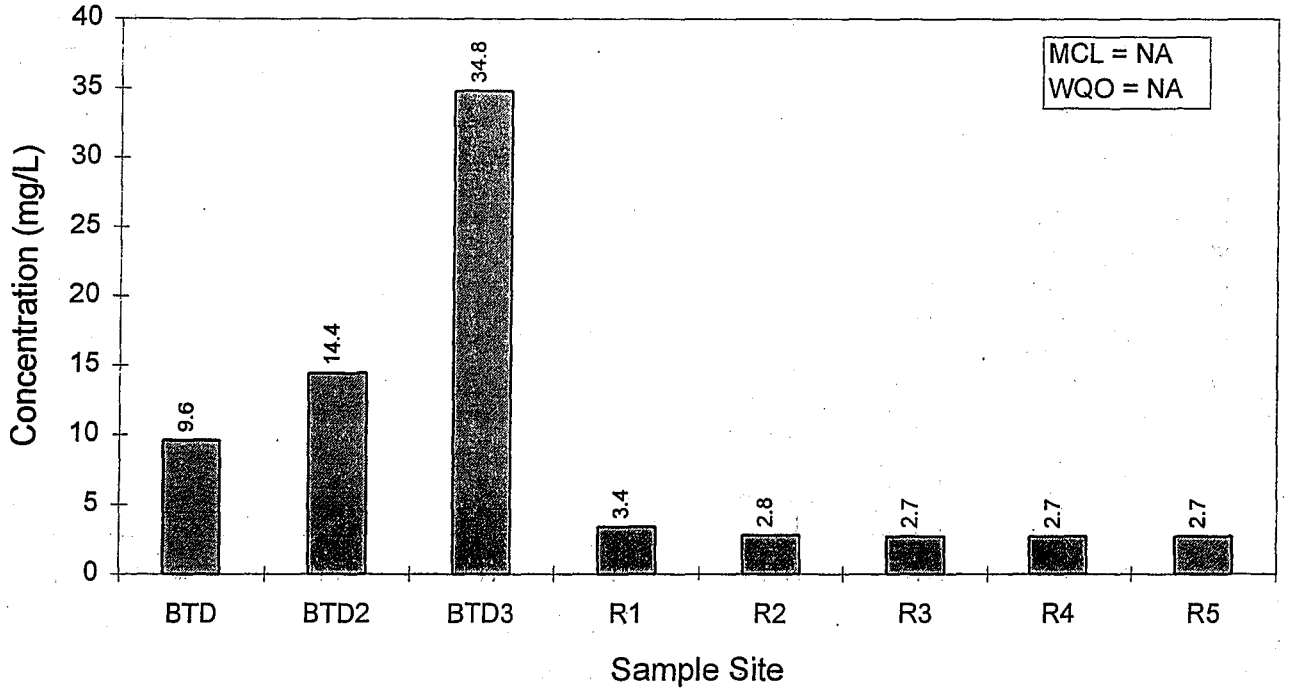


Figure 19. Dissolved Oxygen Concentrations in Water Samples

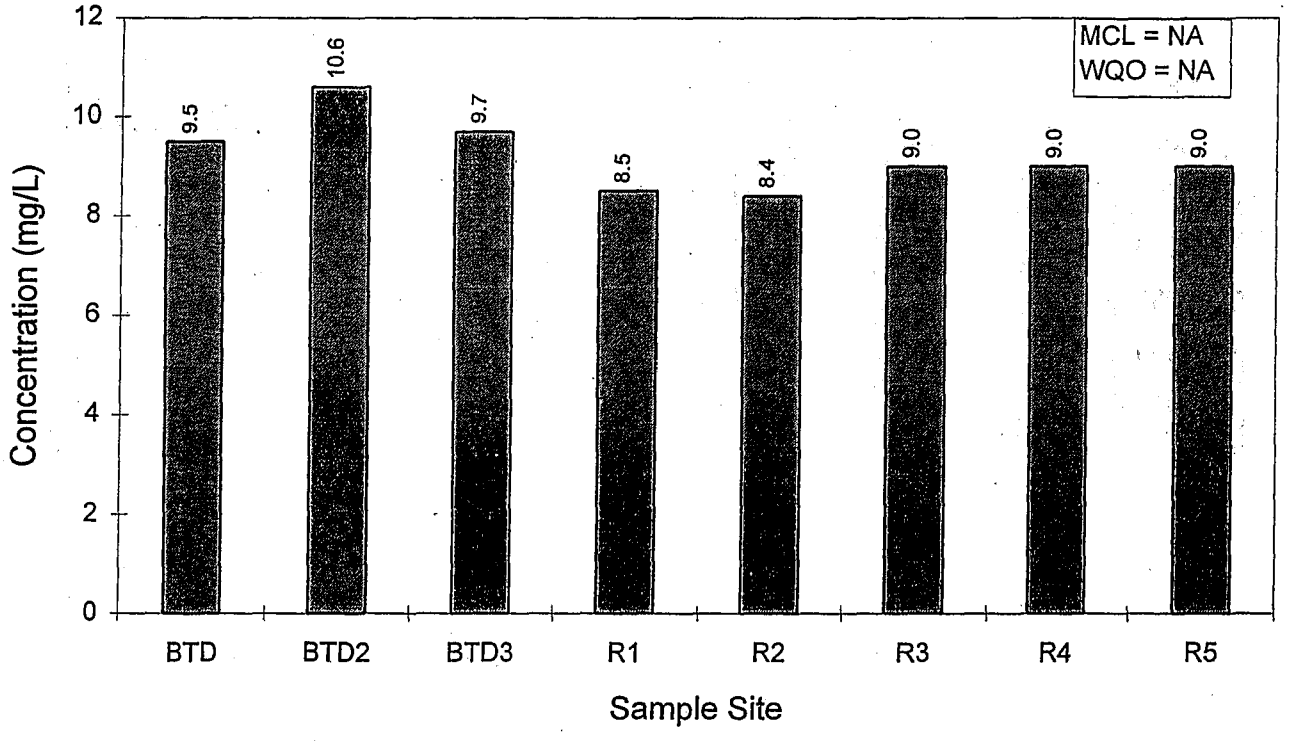


Figure 20. Total Alkalinity Concentrations in Water Samples

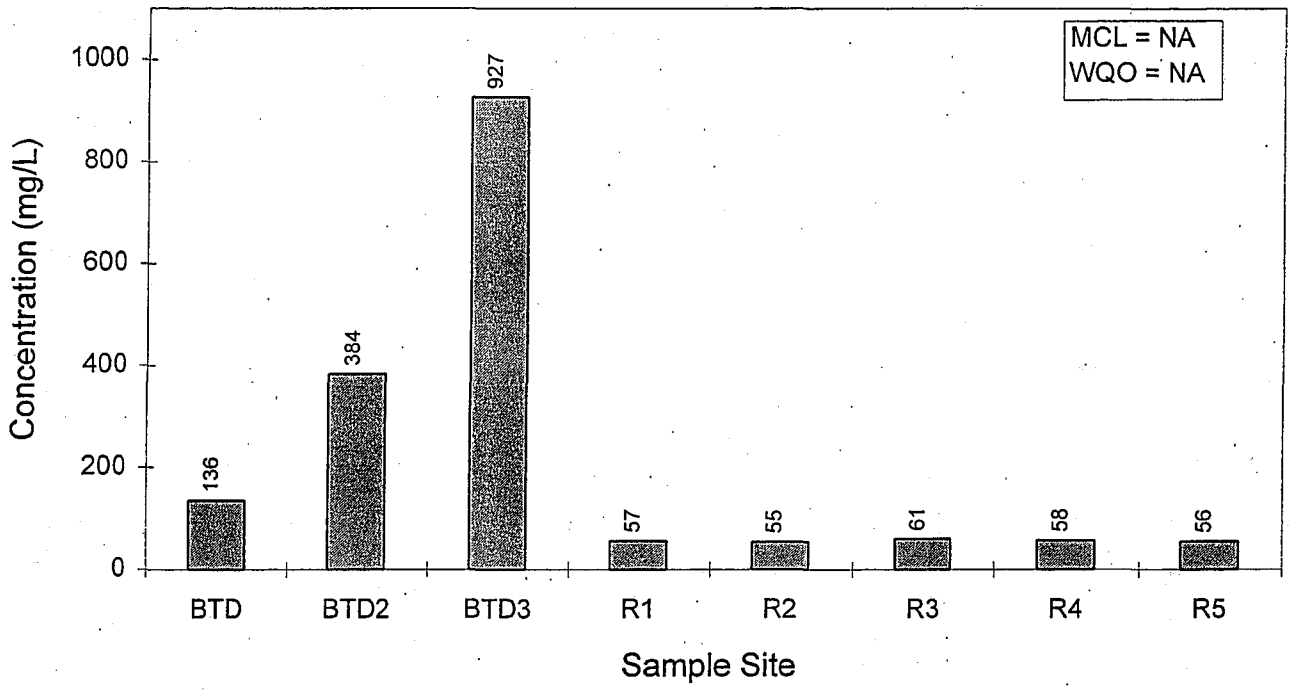


Figure 21. Hardness Concentrations in Water Samples

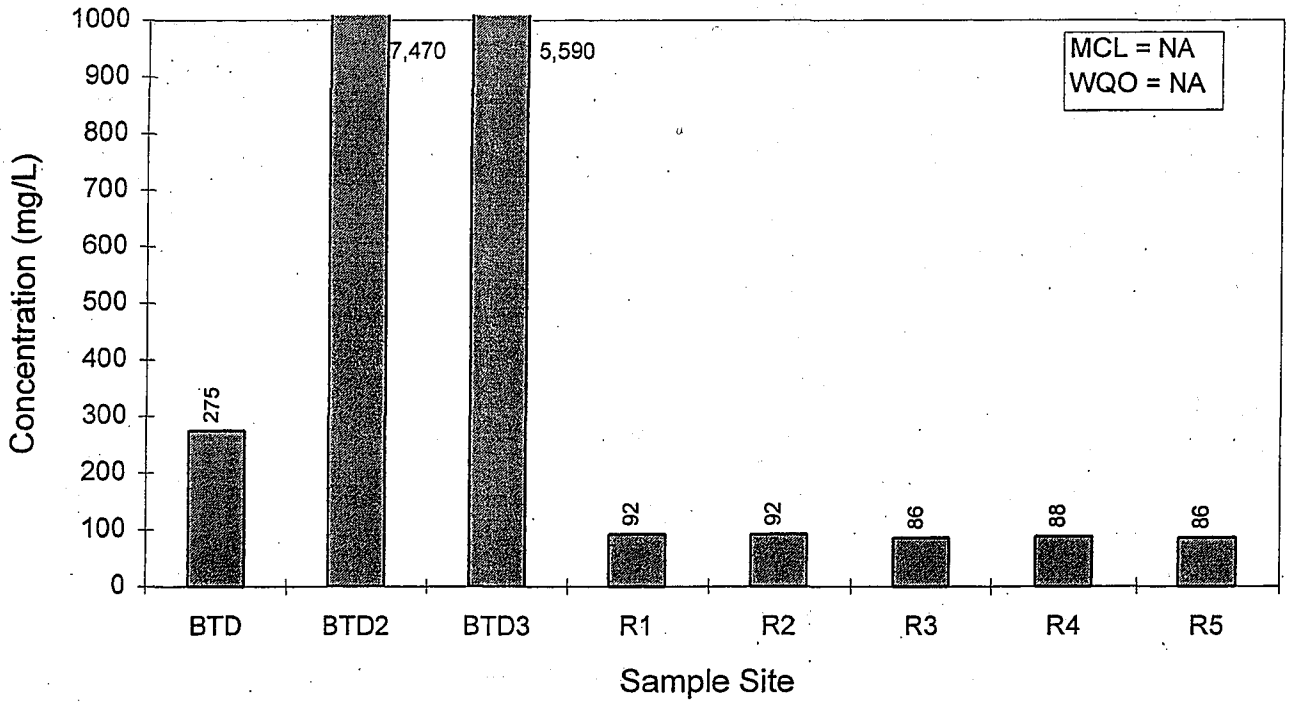


Figure 22. pH Concentrations in Water Samples

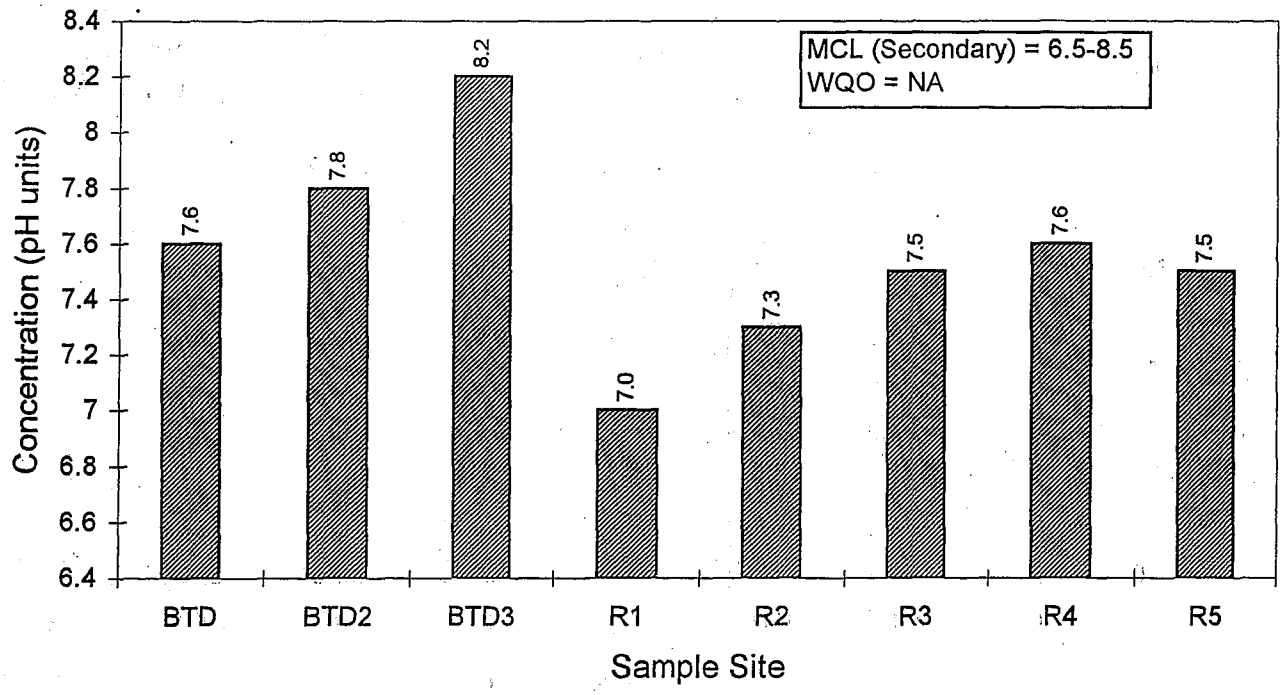


Figure 23. Total Dissolved Solids Concentrations in Water Samples

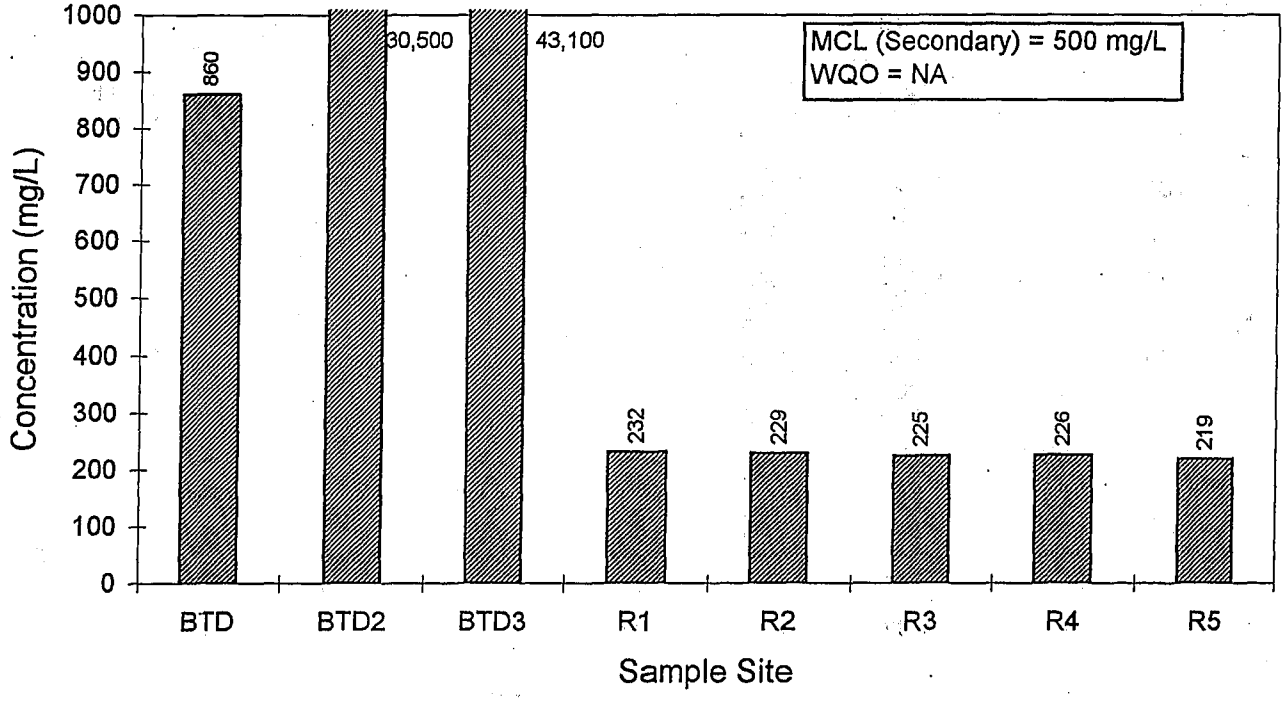


Figure 24. Arsenic Concentrations in Water Samples

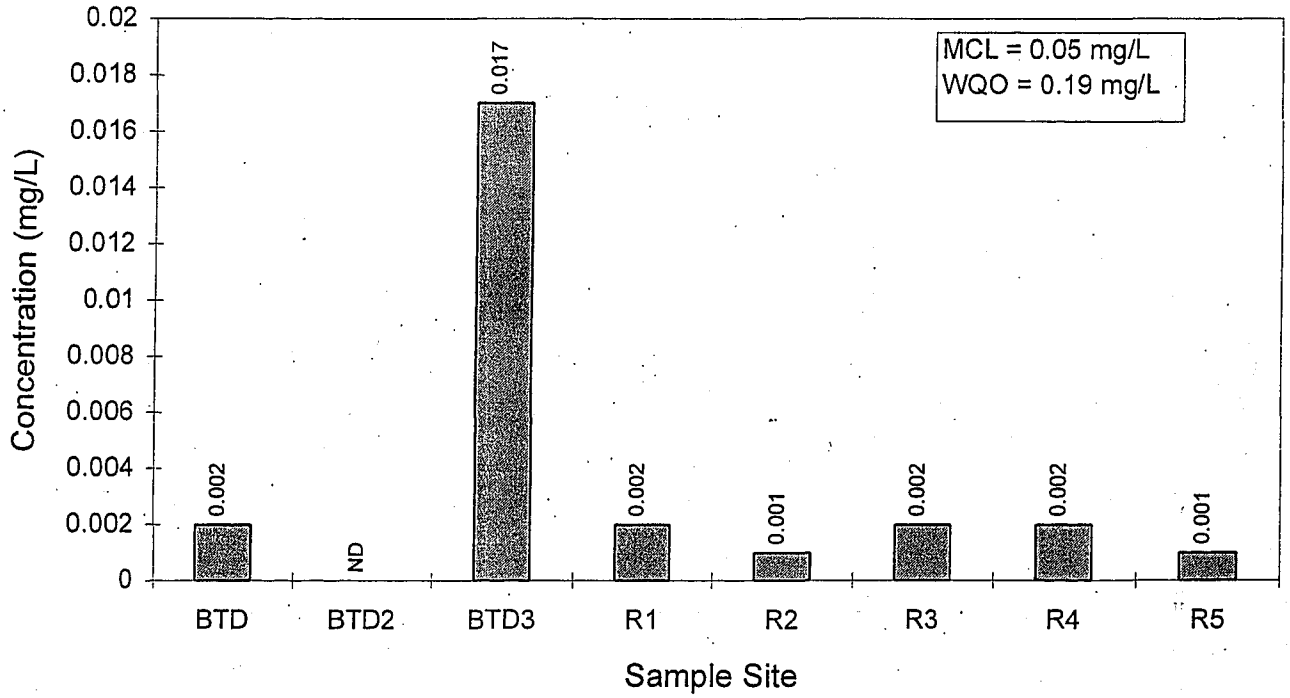


Figure 25. Copper Concentrations in Water Samples

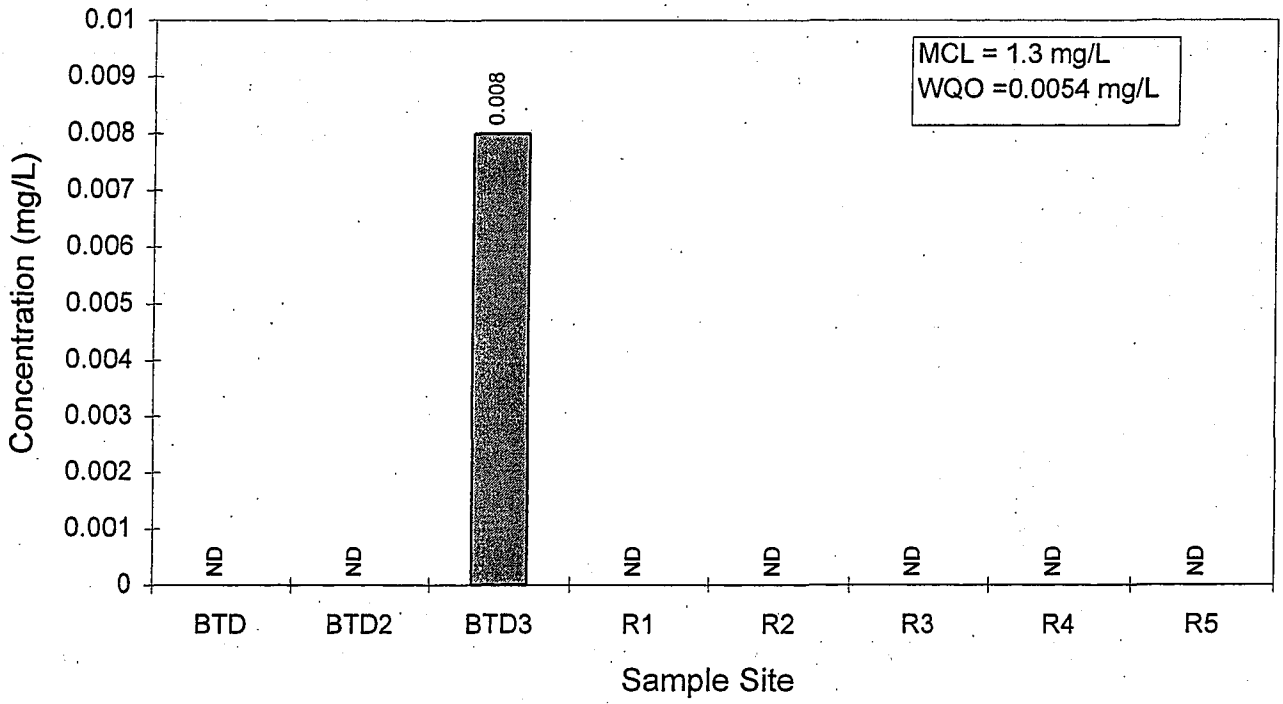


Figure 26. Lead Concentrations in Water Samples

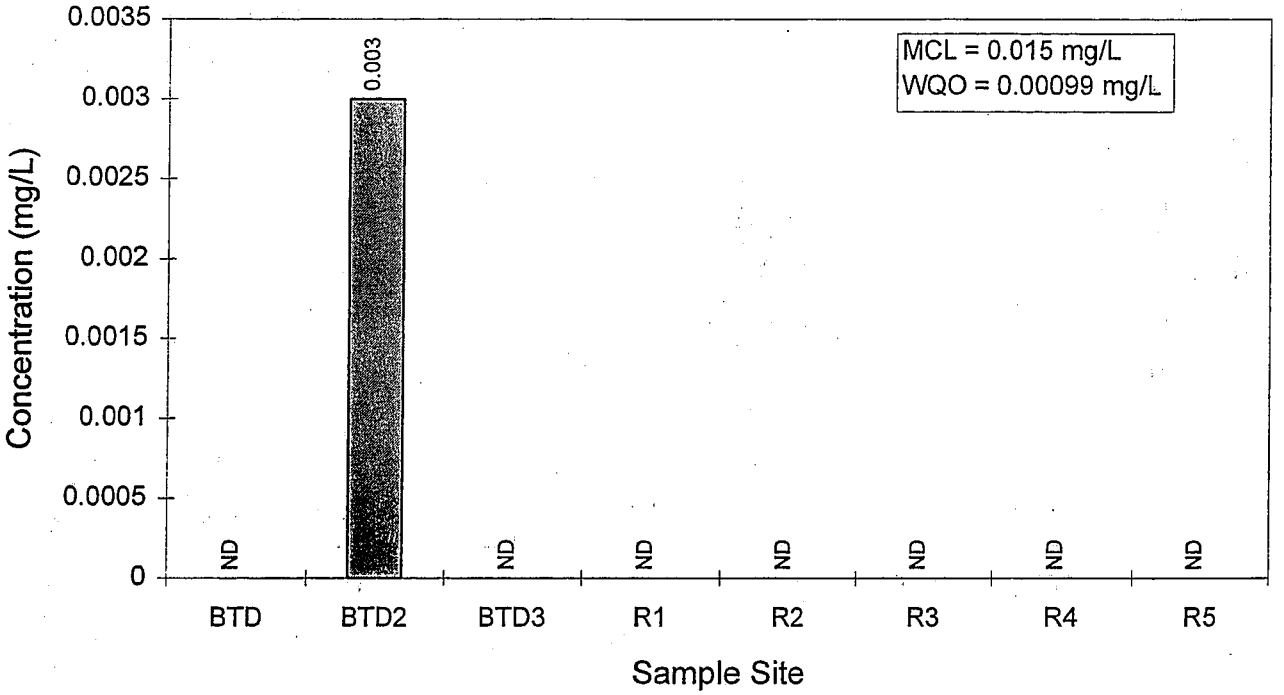


Figure 27. Nickel Concentrations in Water Samples

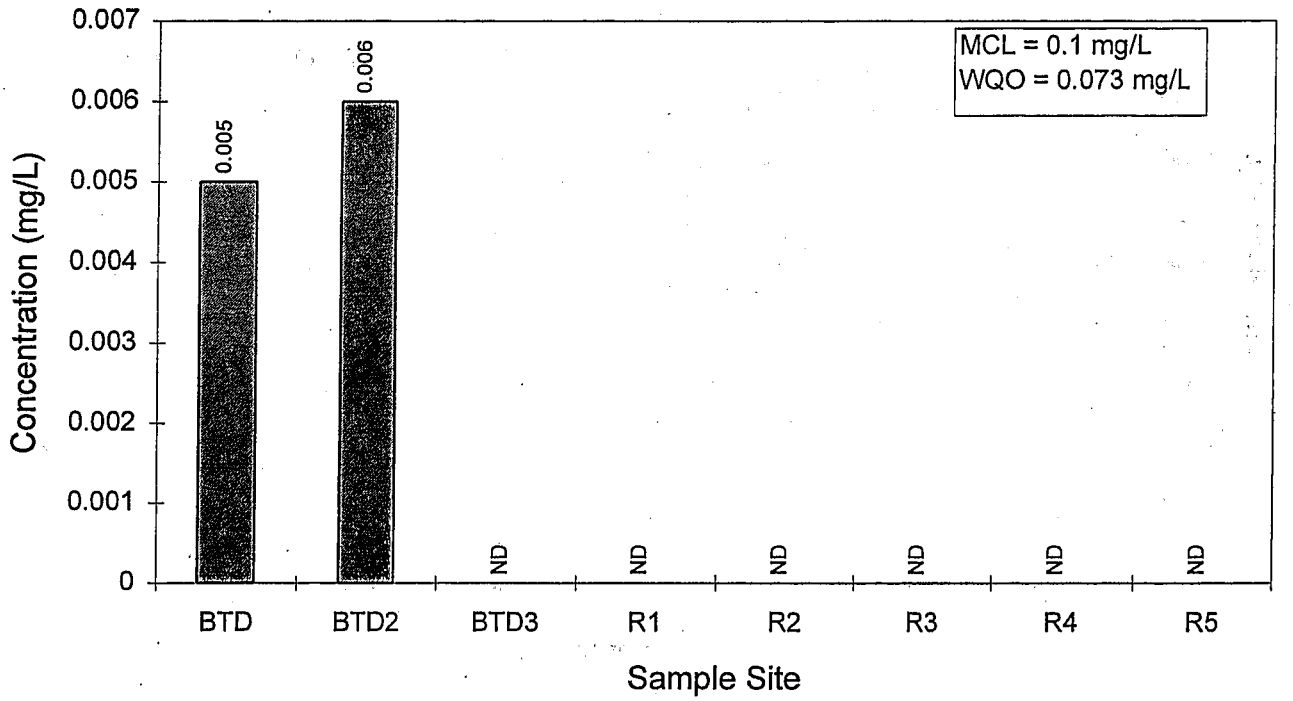


Figure 28. Selenium Concentrations in Water Samples

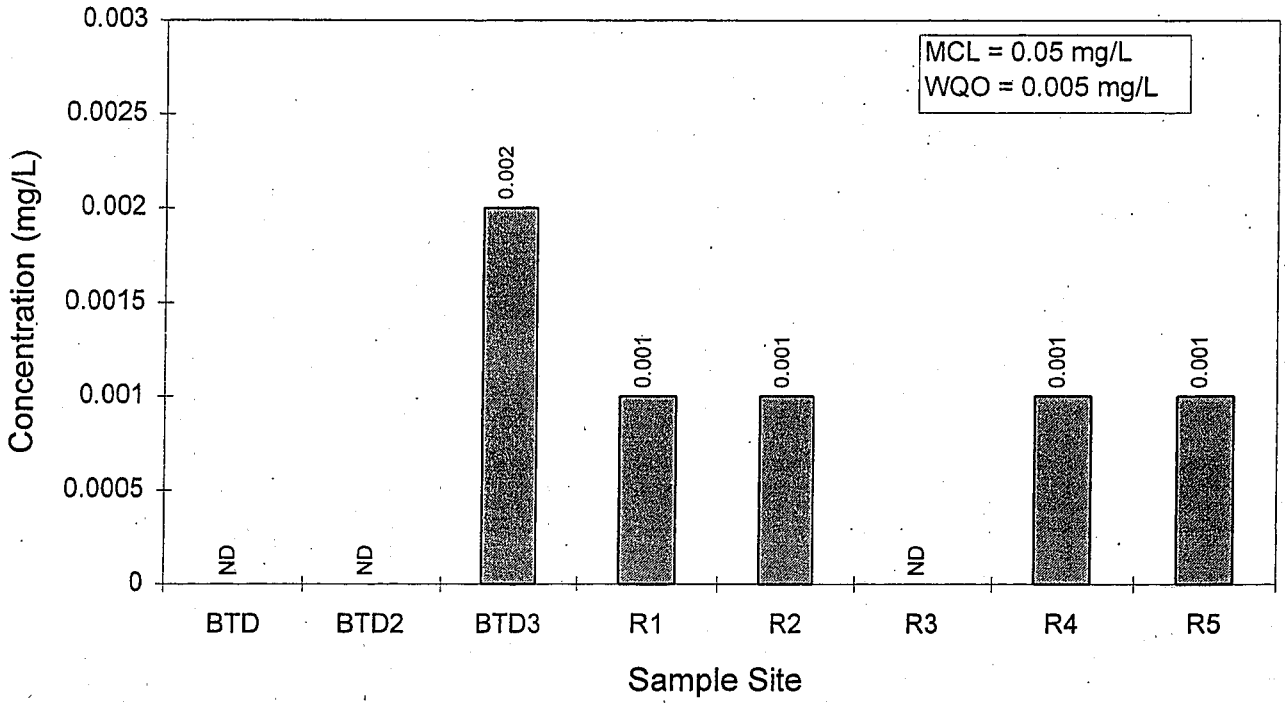


Figure 29. Zinc Concentrations in Water Samples

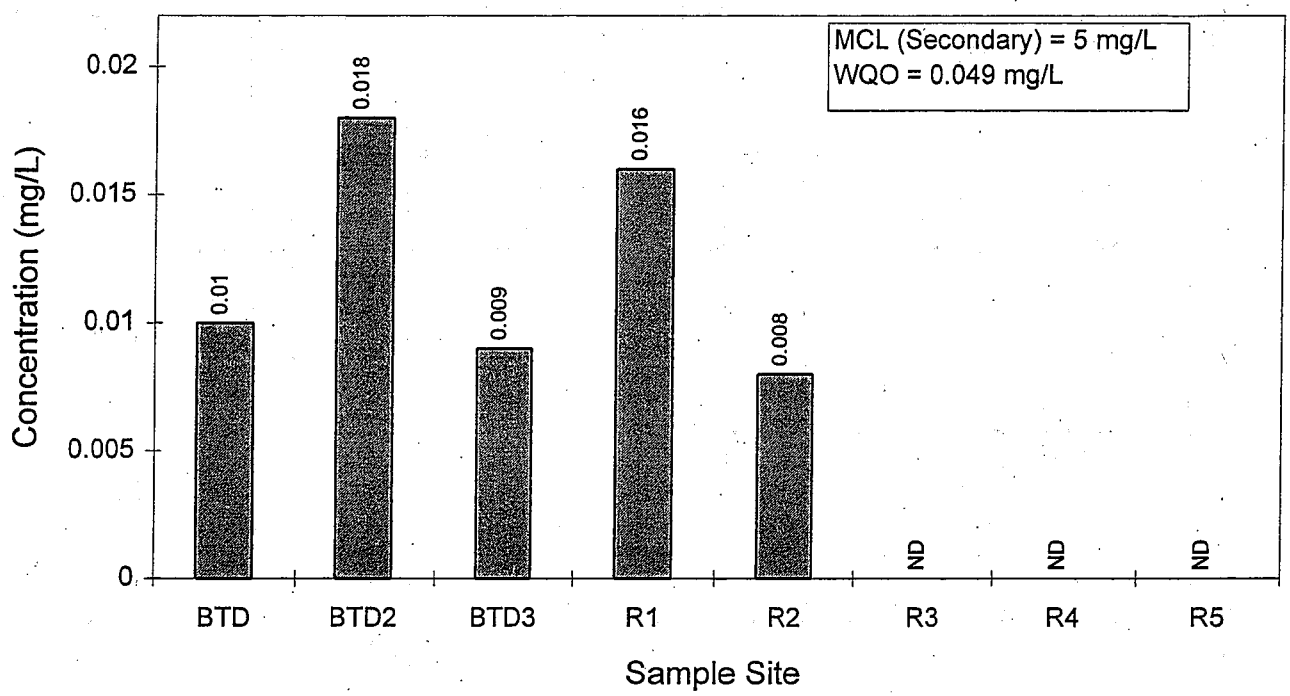


Figure 30. Grain-size Distribution for Spoil Soil Sites C-10, C-11, and C-12

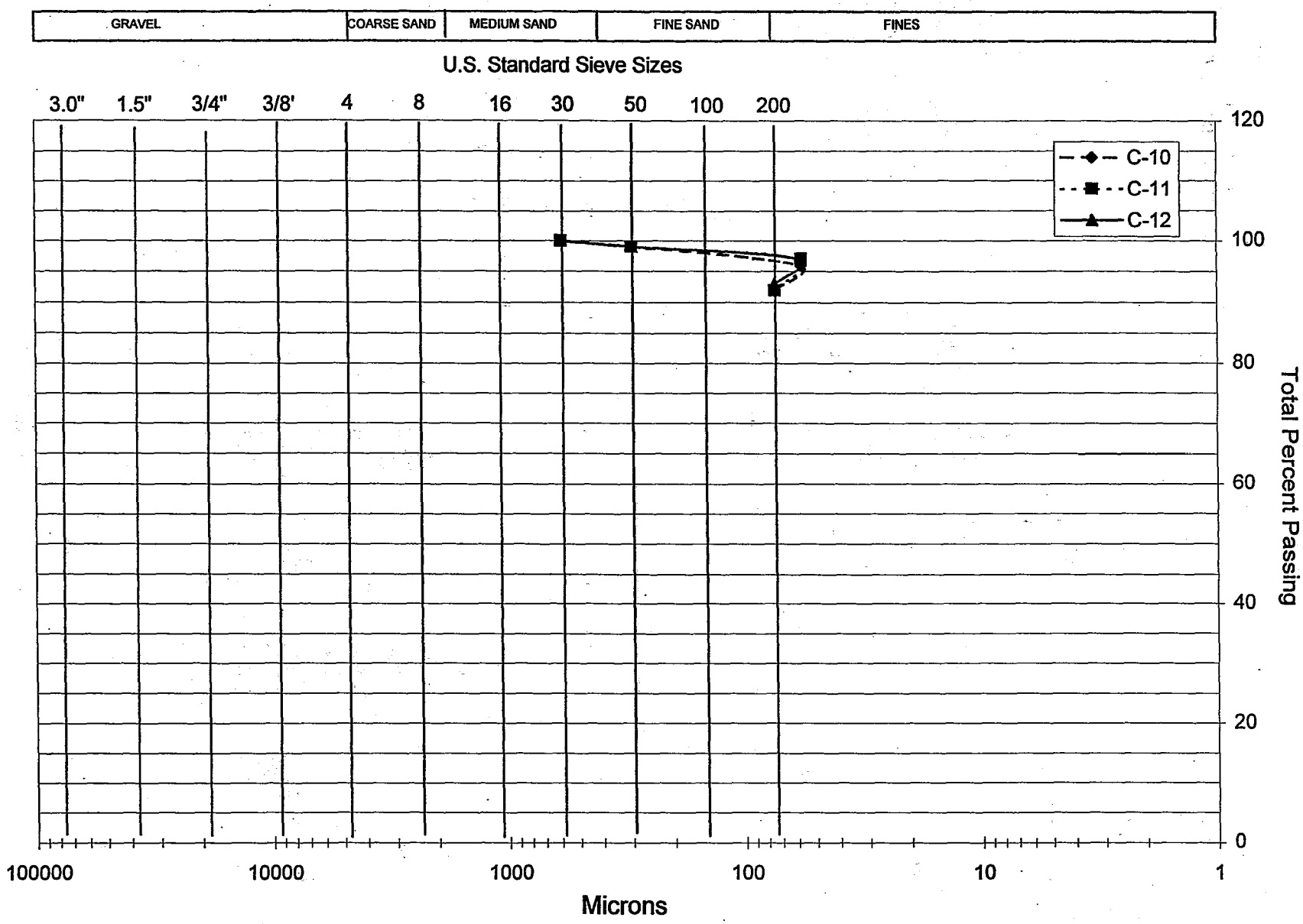


Figure 31. Grain-size Distribution for Spoil Soil Sites C-13, C-14, and C-15

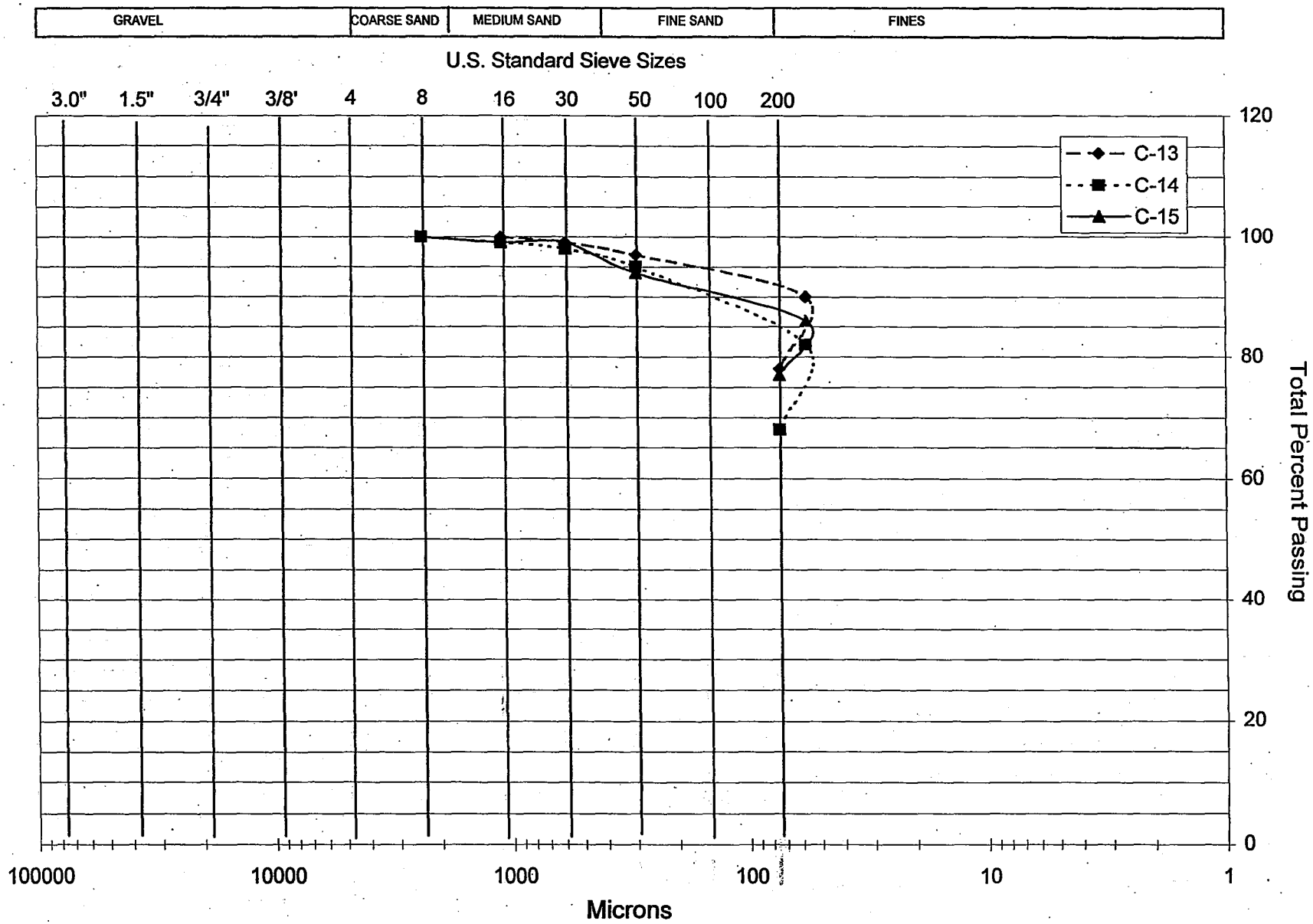


Figure 32. Grain-size Distribution for Spoil Soil Sites C-16, C-17, and C-18

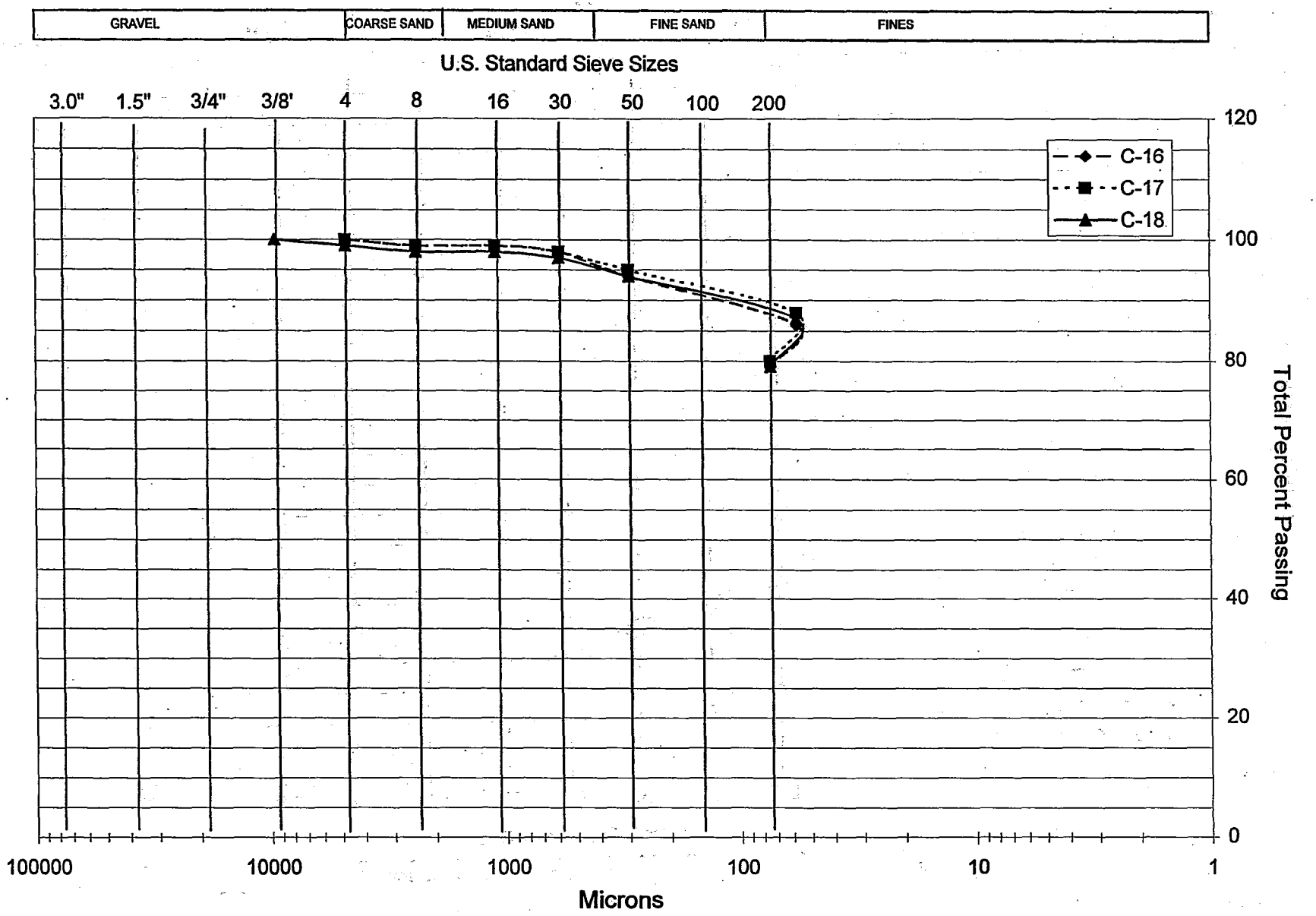


Figure 33. Grain-size Distribution for Road Side Soils Site 1 and 2

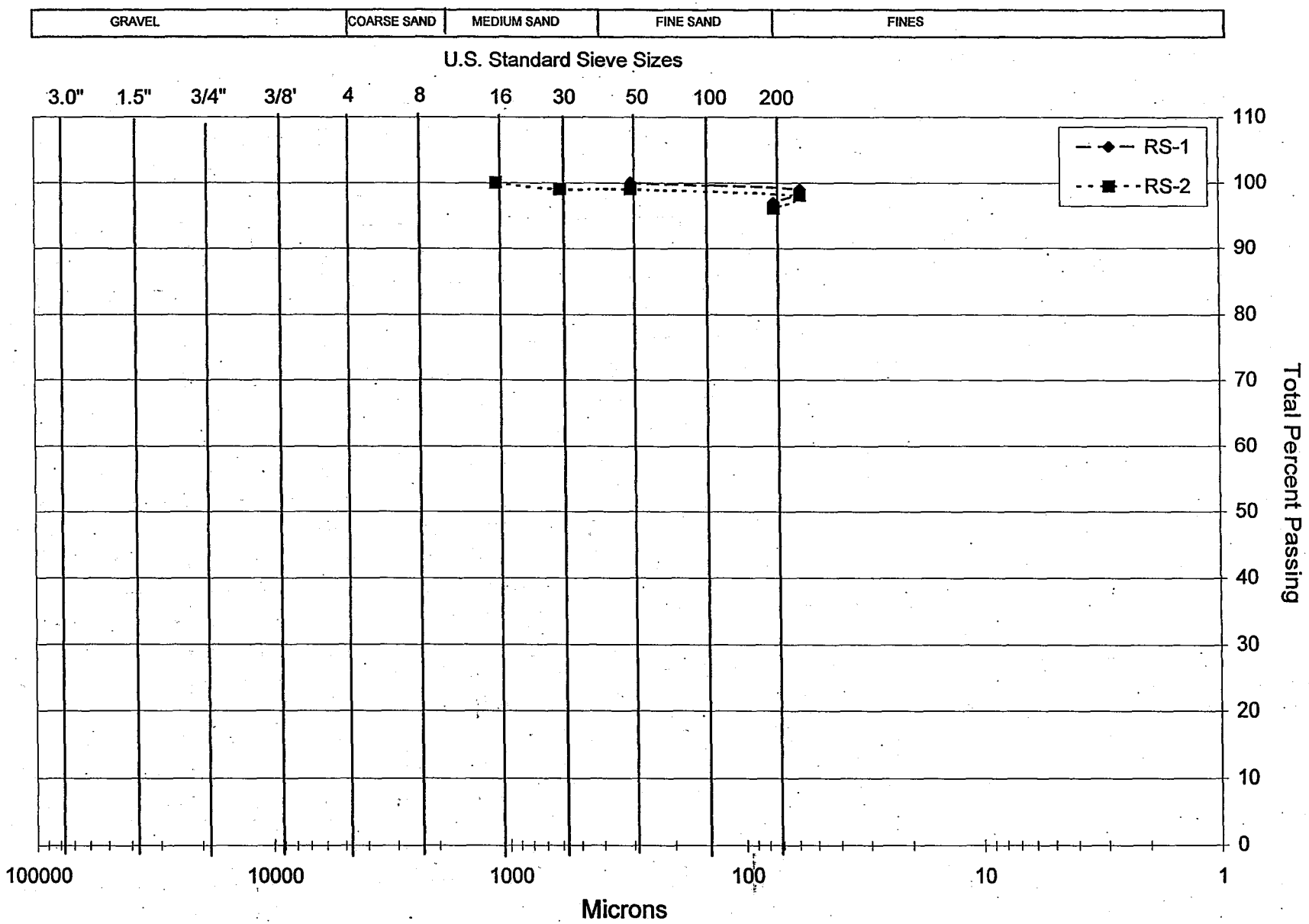


Figure 34. Grain-size Distribution for Levee Soil Sites 1, 2, and 3

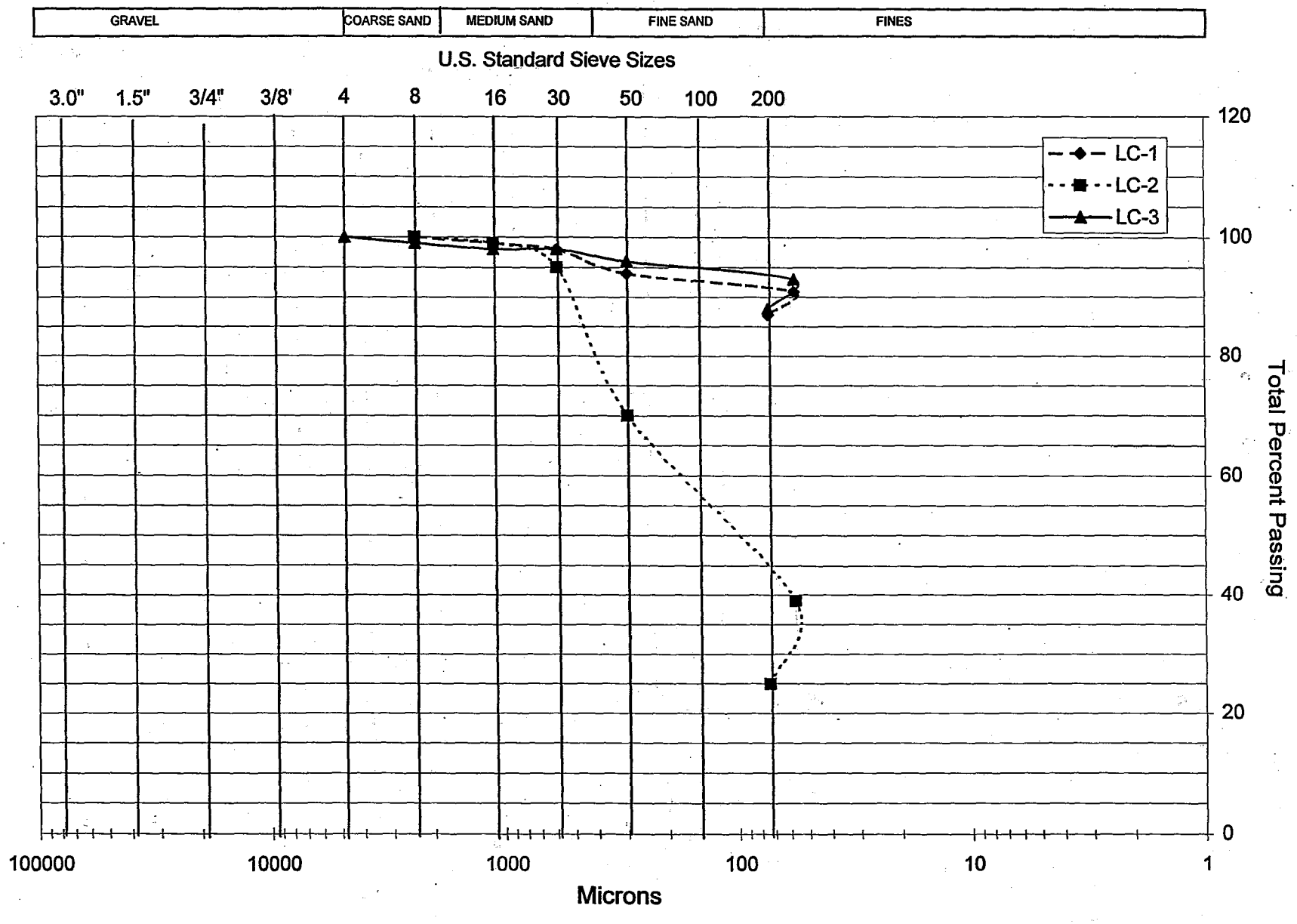


Figure 35. Soluble Specific Conductance in Soil Samples

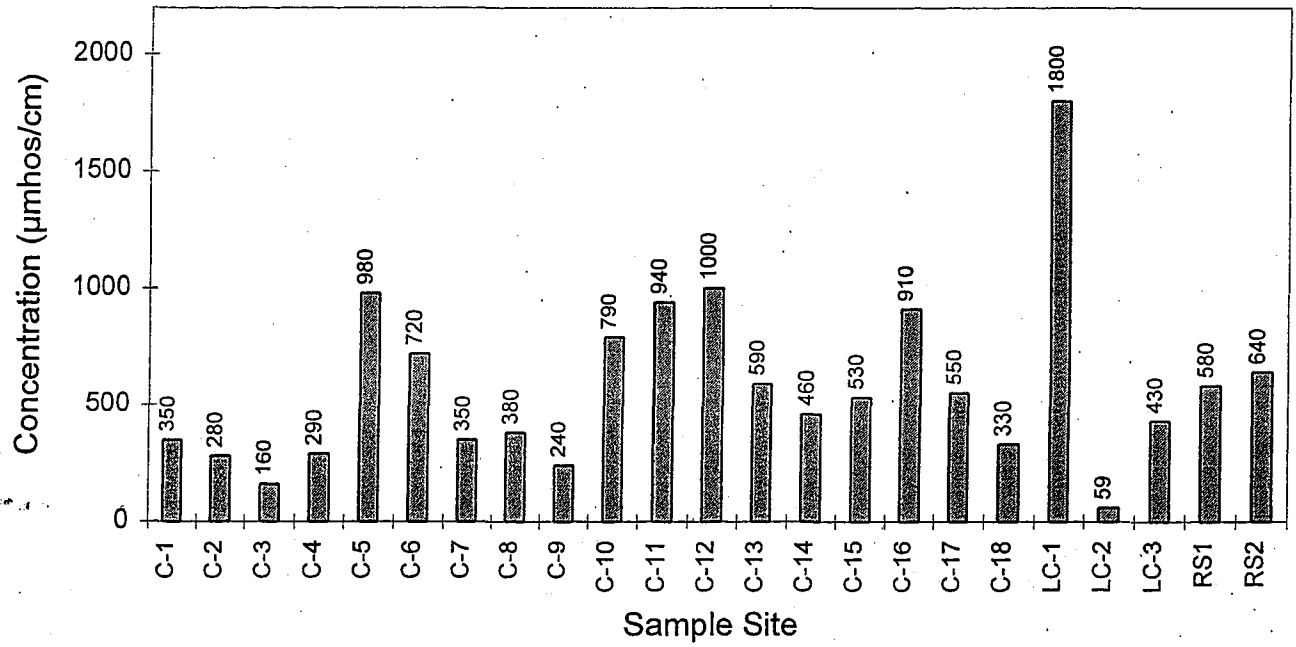


Figure 36. Moisture Concentrations in Soil Samples

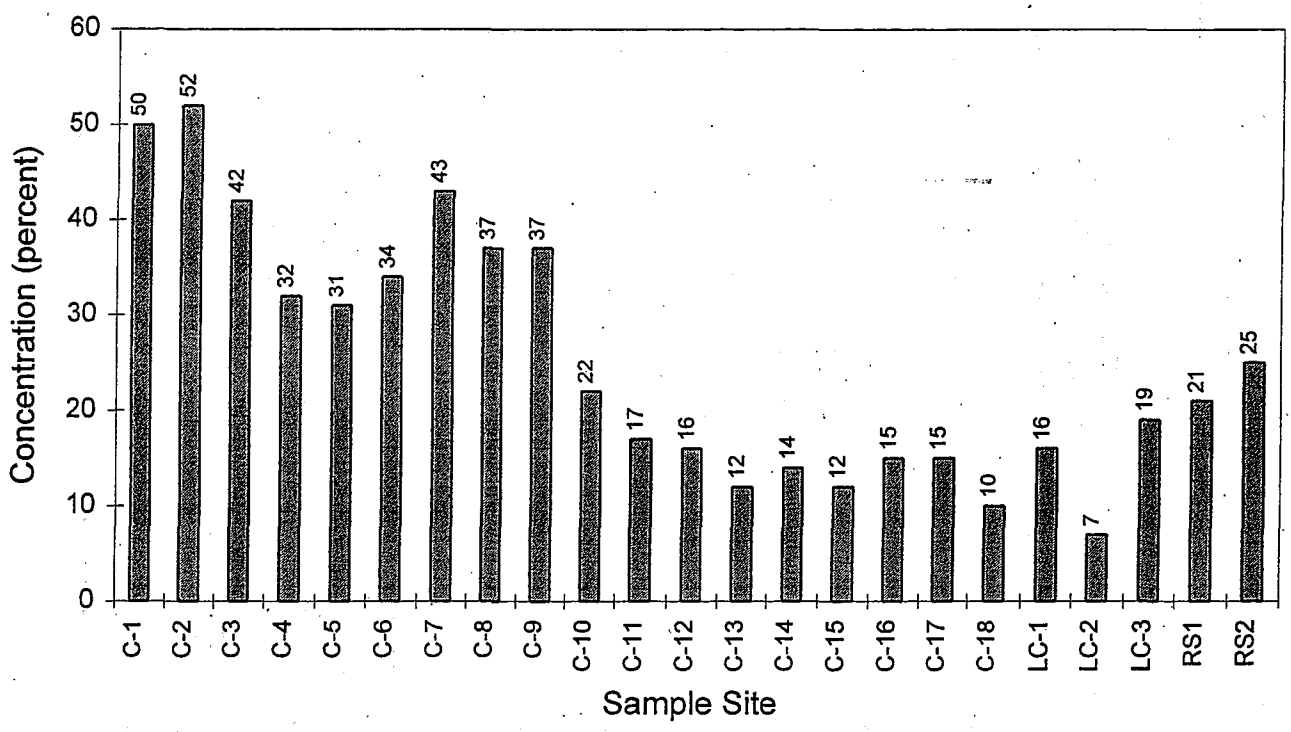


Figure 37. Acid Neutralization Ratio for Byron Tract Sediment Samples (N/A ratio)

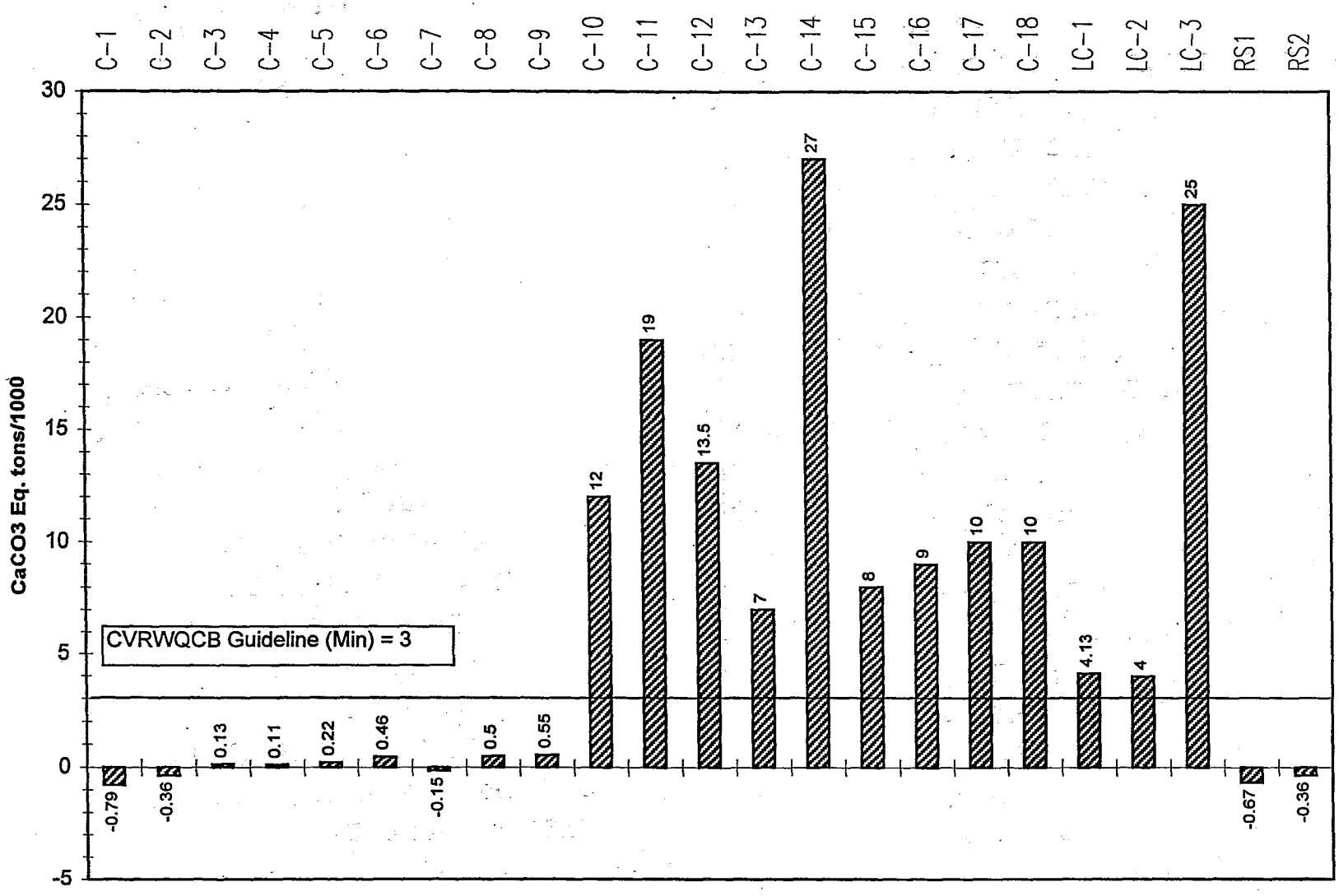


Figure 38. Total Volatile Solids Concentrations in Soil Samples

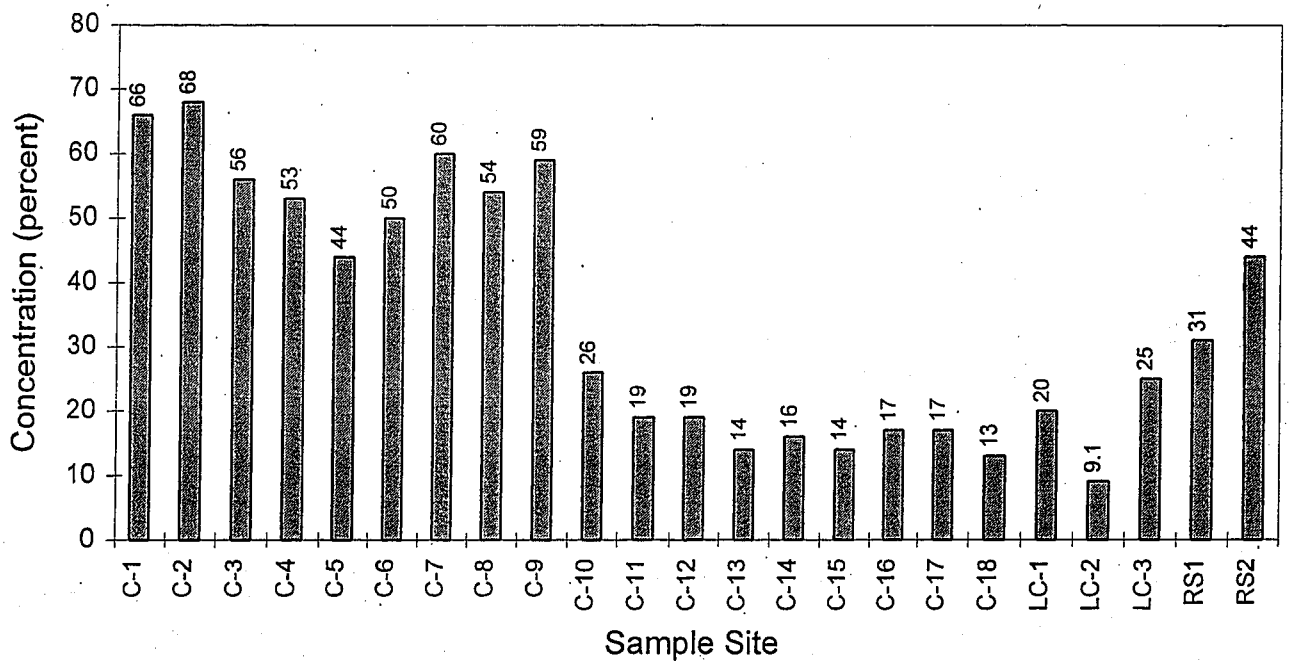


Figure 39. Total Organic Carbon Concentrations in Soil Samples

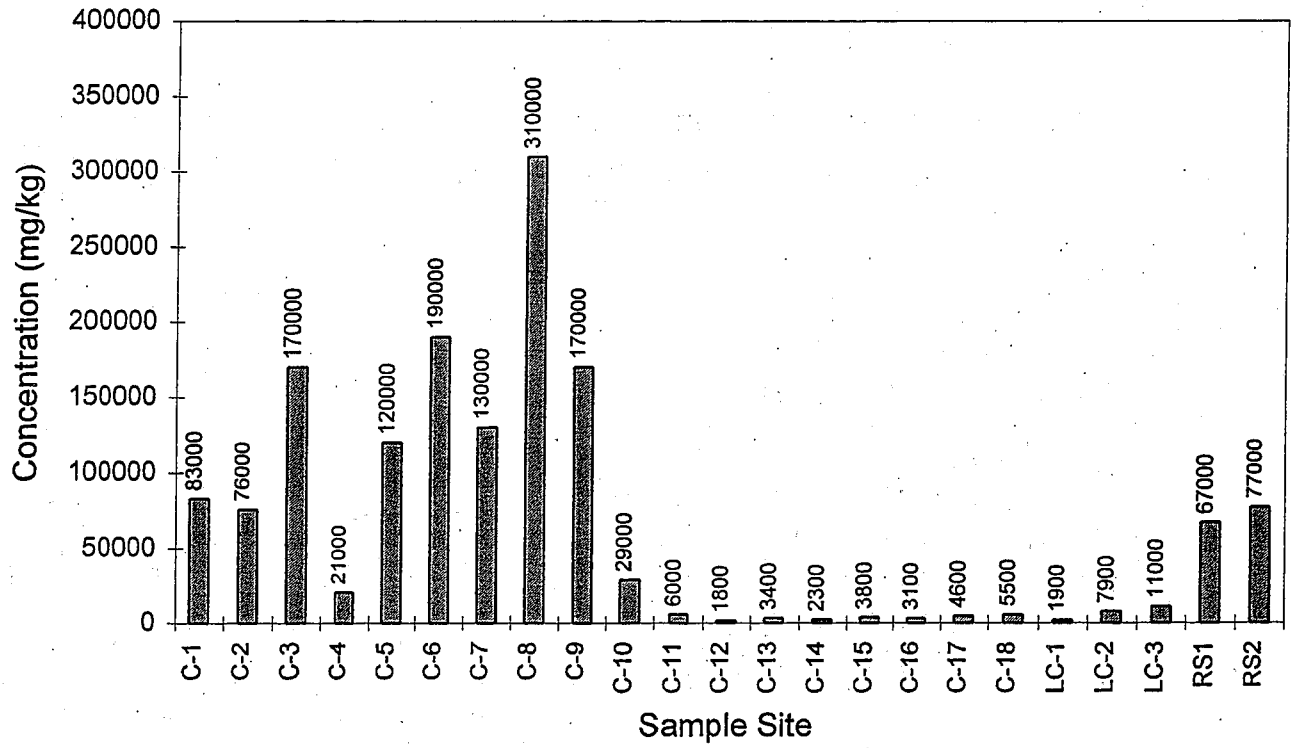


Figure 40. Oil and Grease Concentrations in Soil Samples

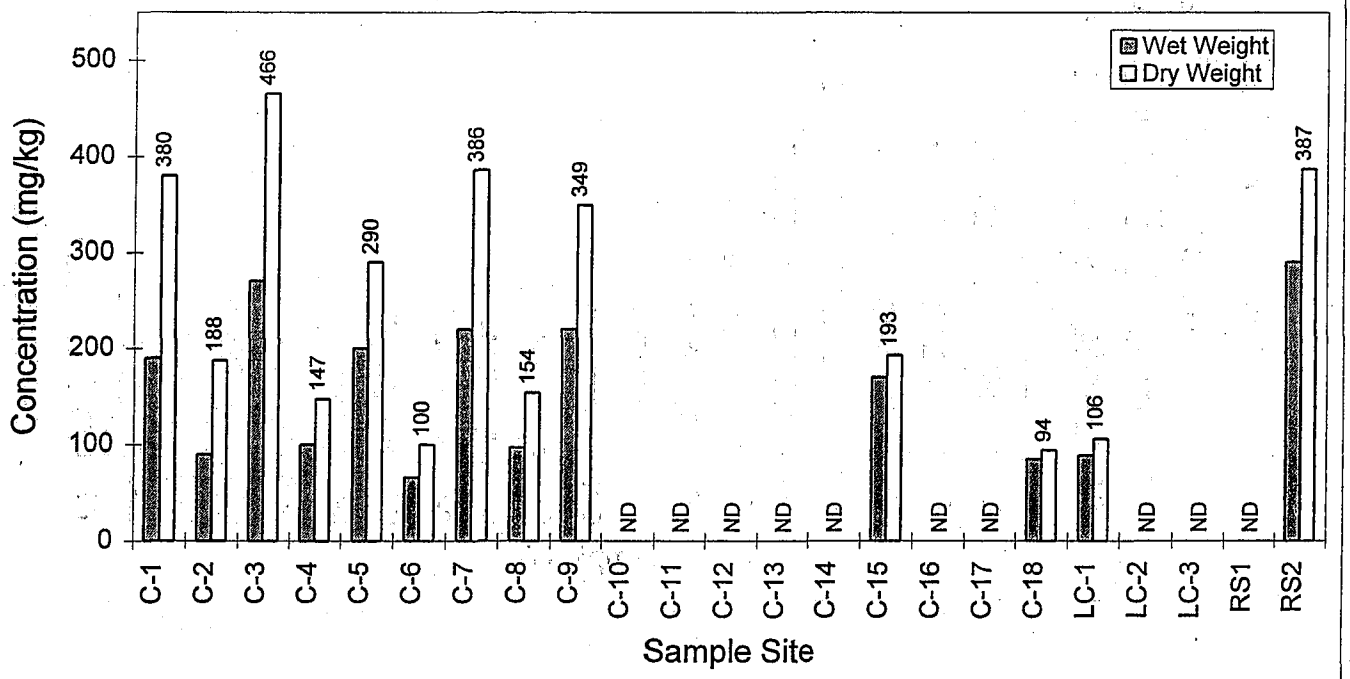


Figure 41. Arsenic Concentrations in Soil Samples

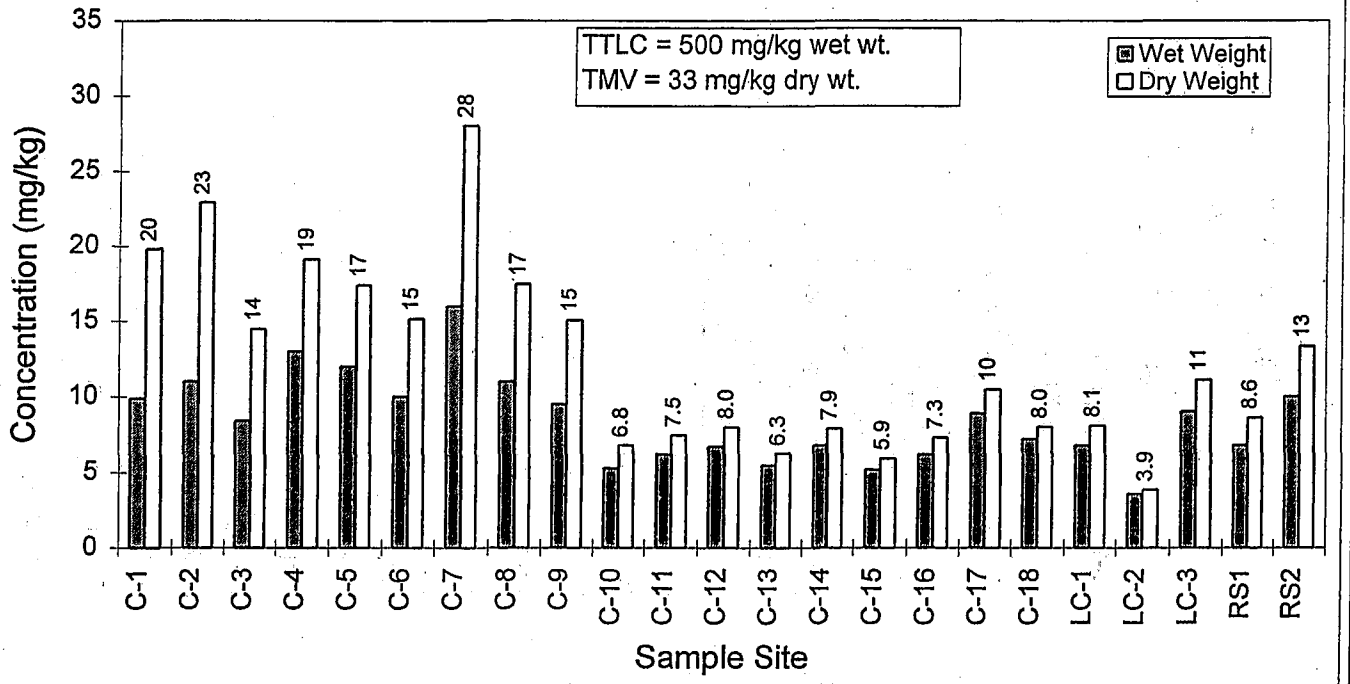


Figure 42. Chromium Concentrations in Soil Samples

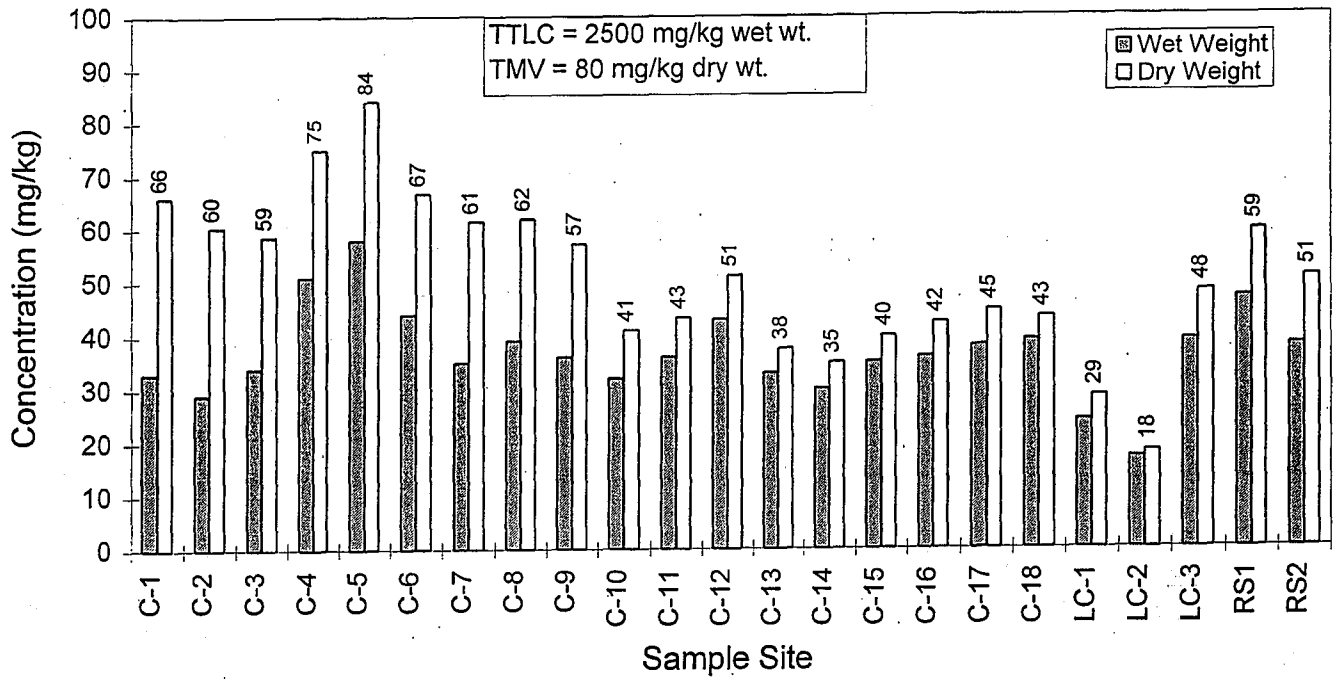


Figure 43. Copper Concentrations in Soil Samples

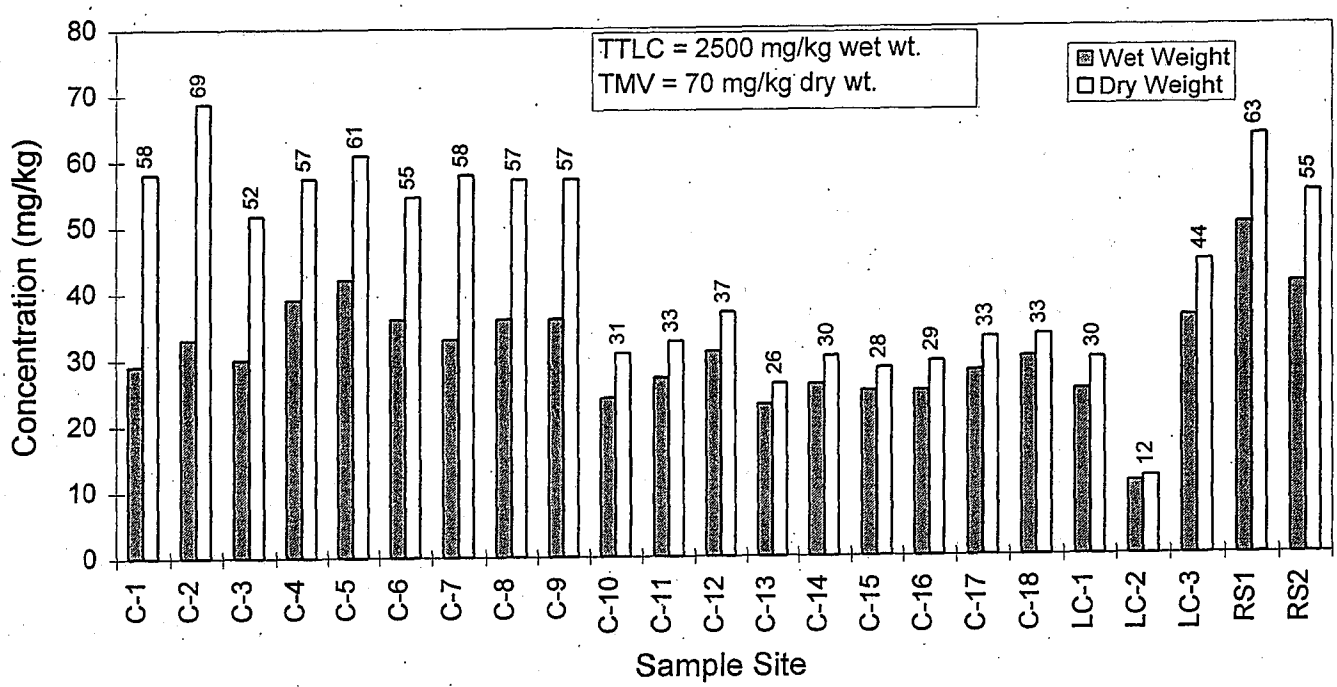


Figure 44. Lead Concentrations in Soil Samples

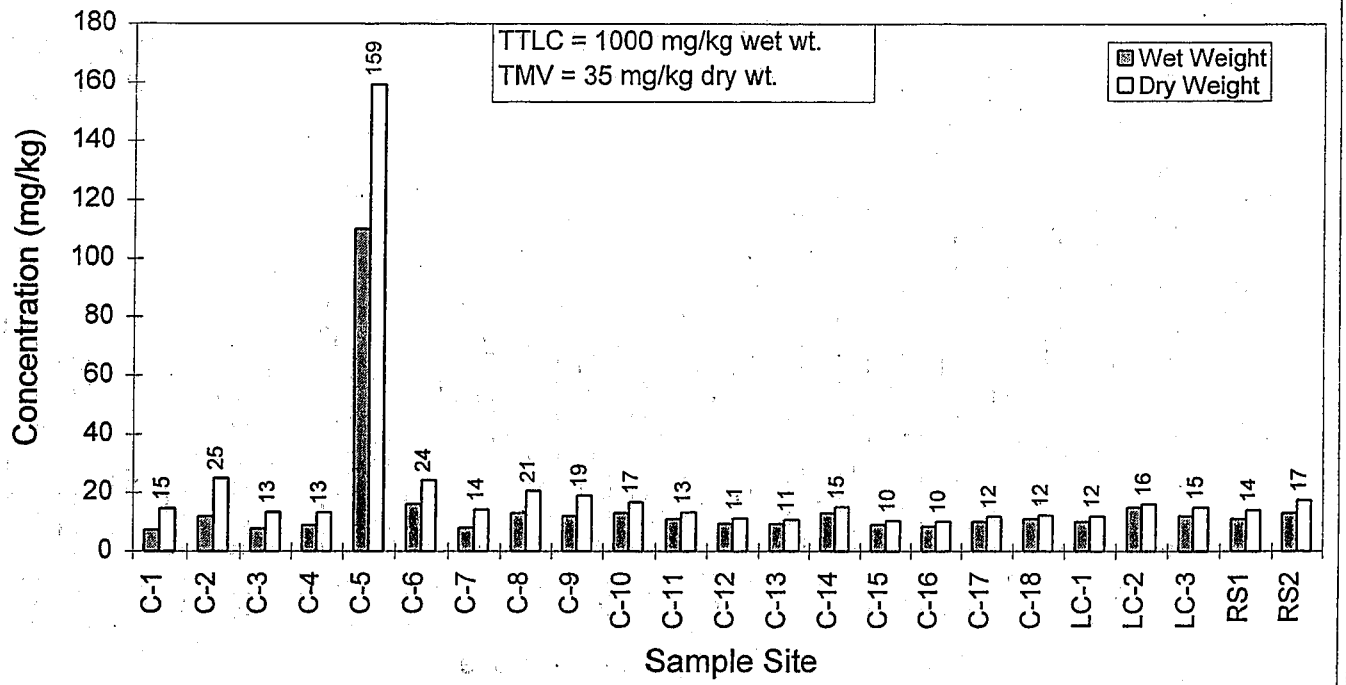


Figure 45. Nickel Concentrations in Soil Samples

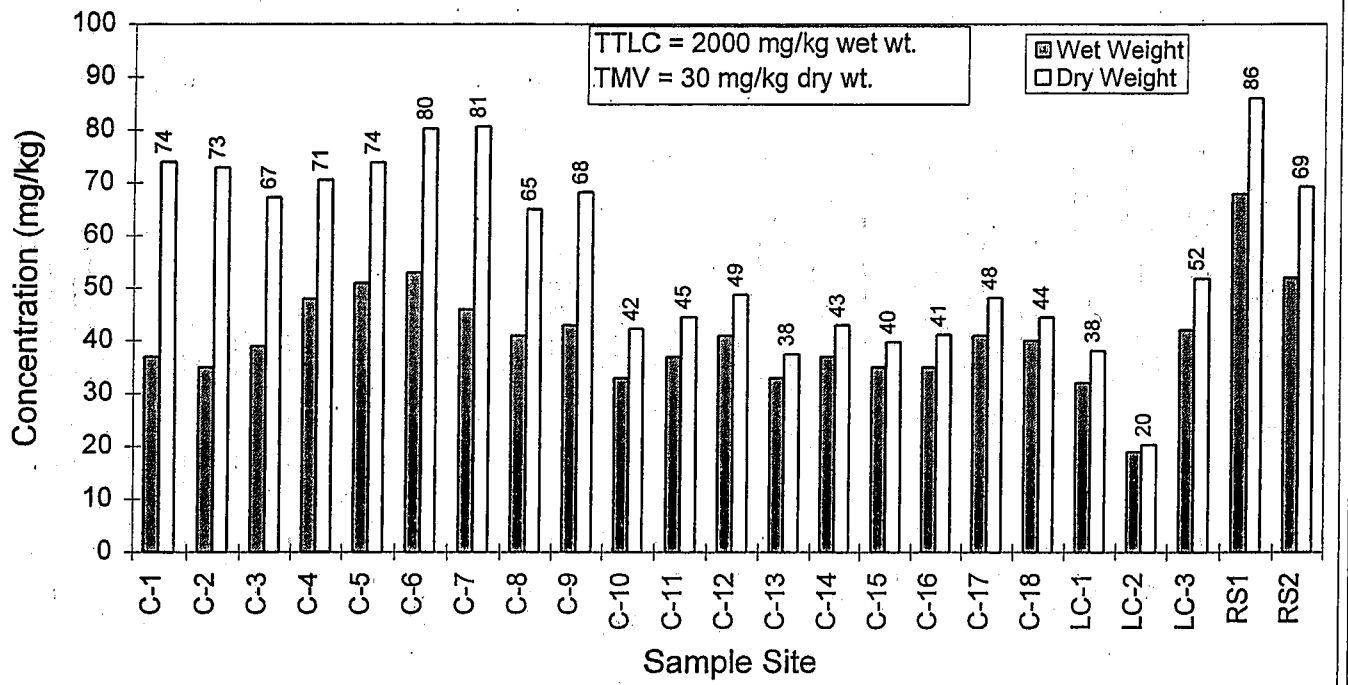


Figure 46. Selenium Concentrations in Soil Samples

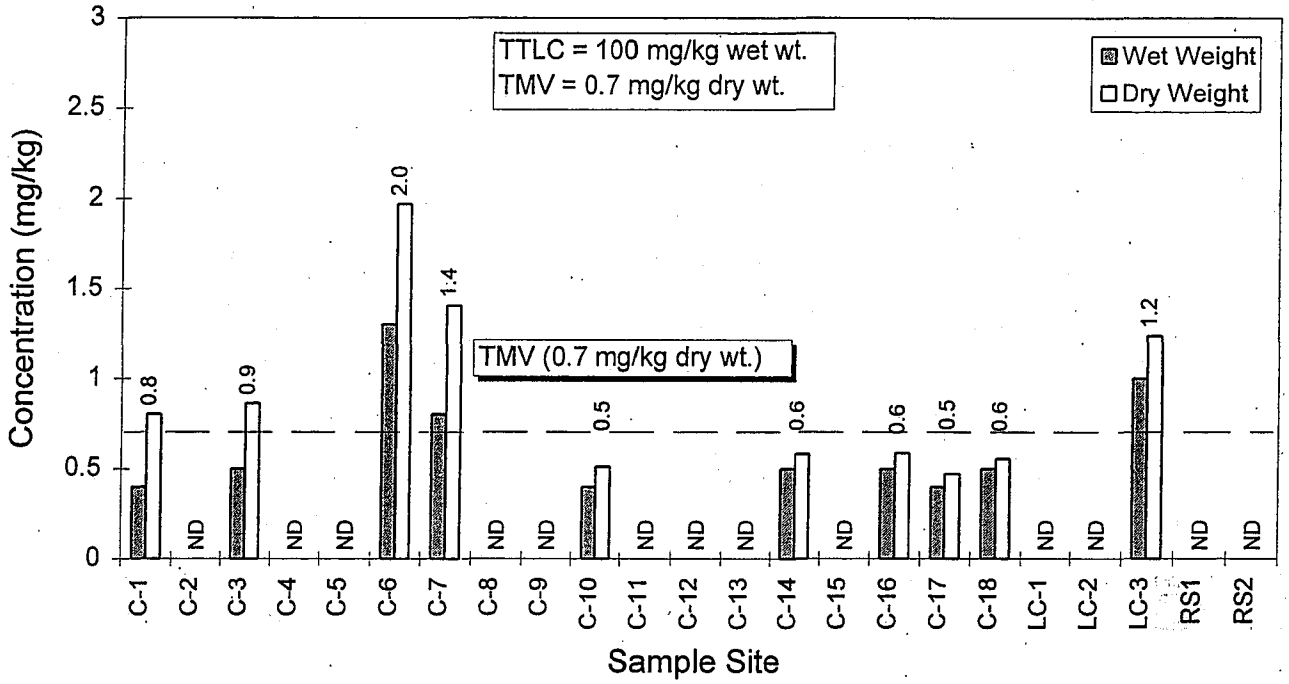


Figure 47. Silver Concentrations in Soil Samples

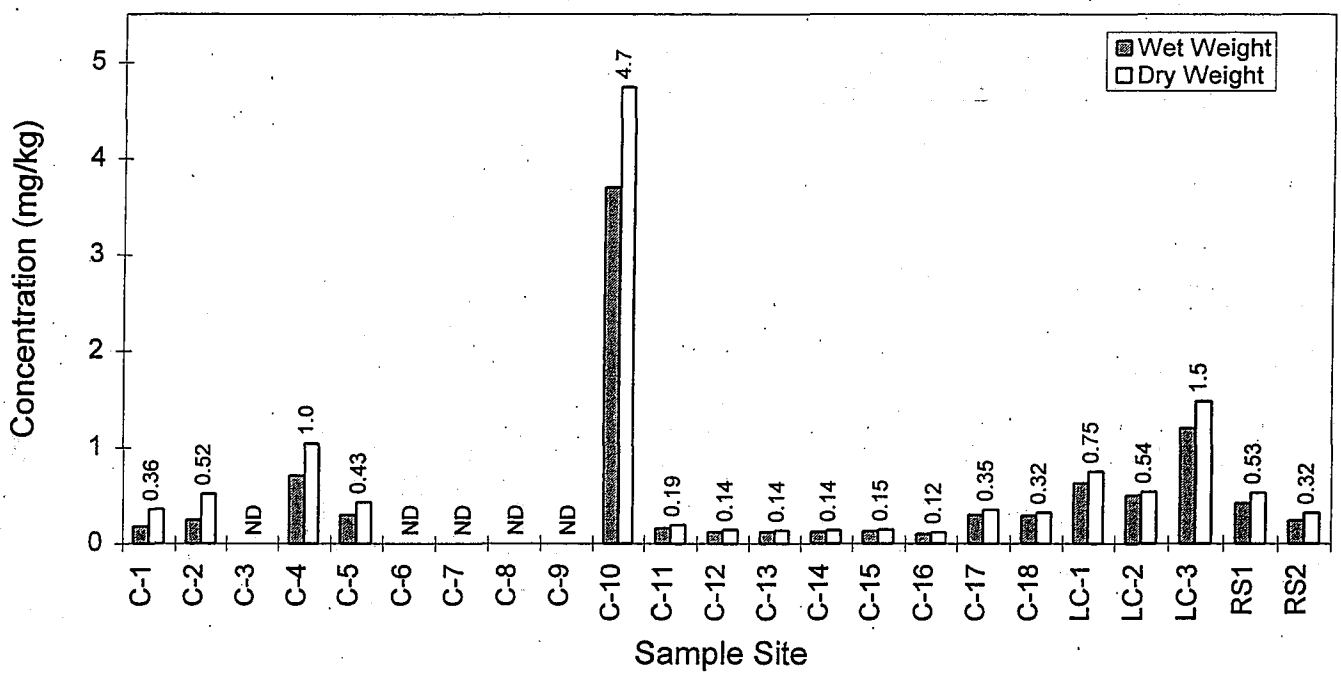


Figure 48. Zinc Concentrations in Soil Samples

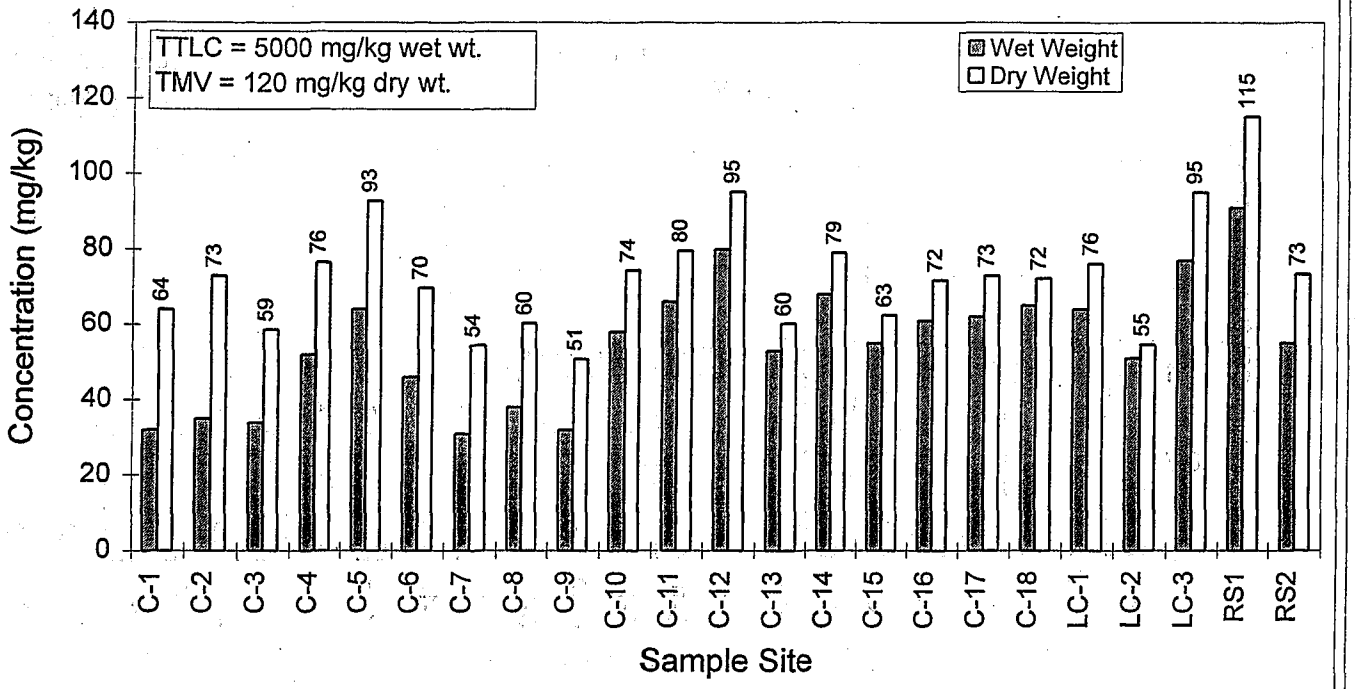


Figure 49. Soluble Arsenic Concentrations in Soil Samples

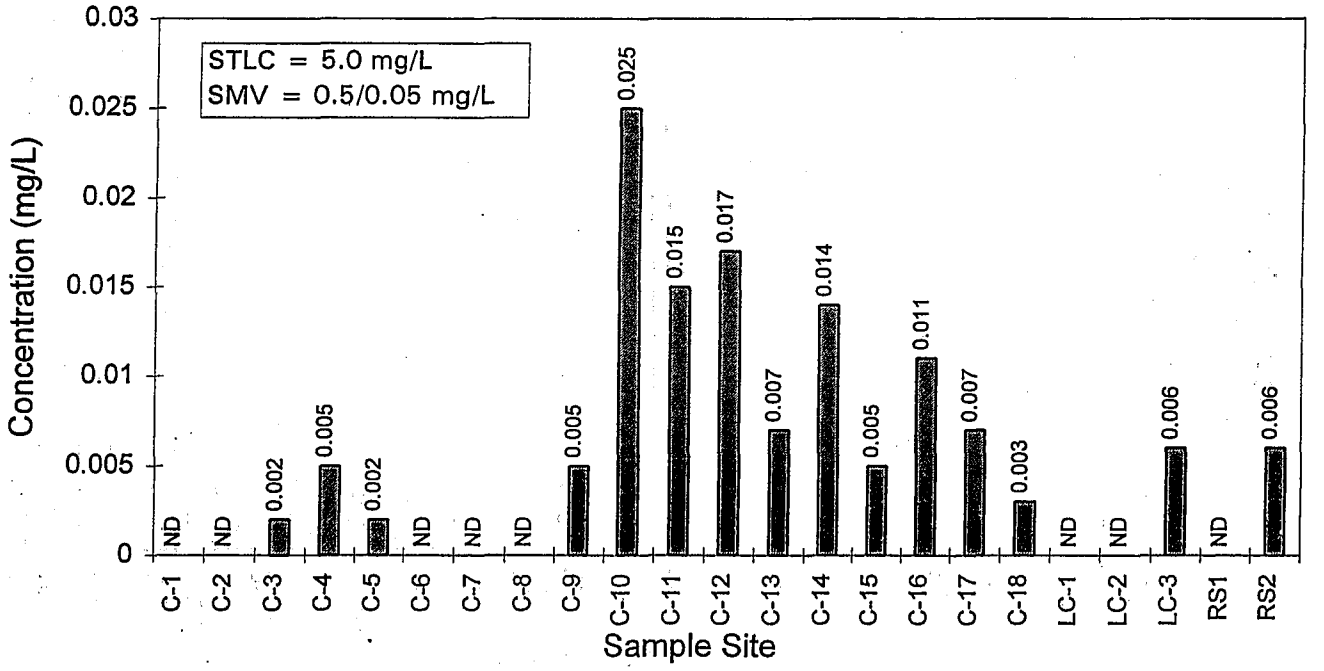


Figure 50. Soluble Chromium Concentrations in Soil Samples

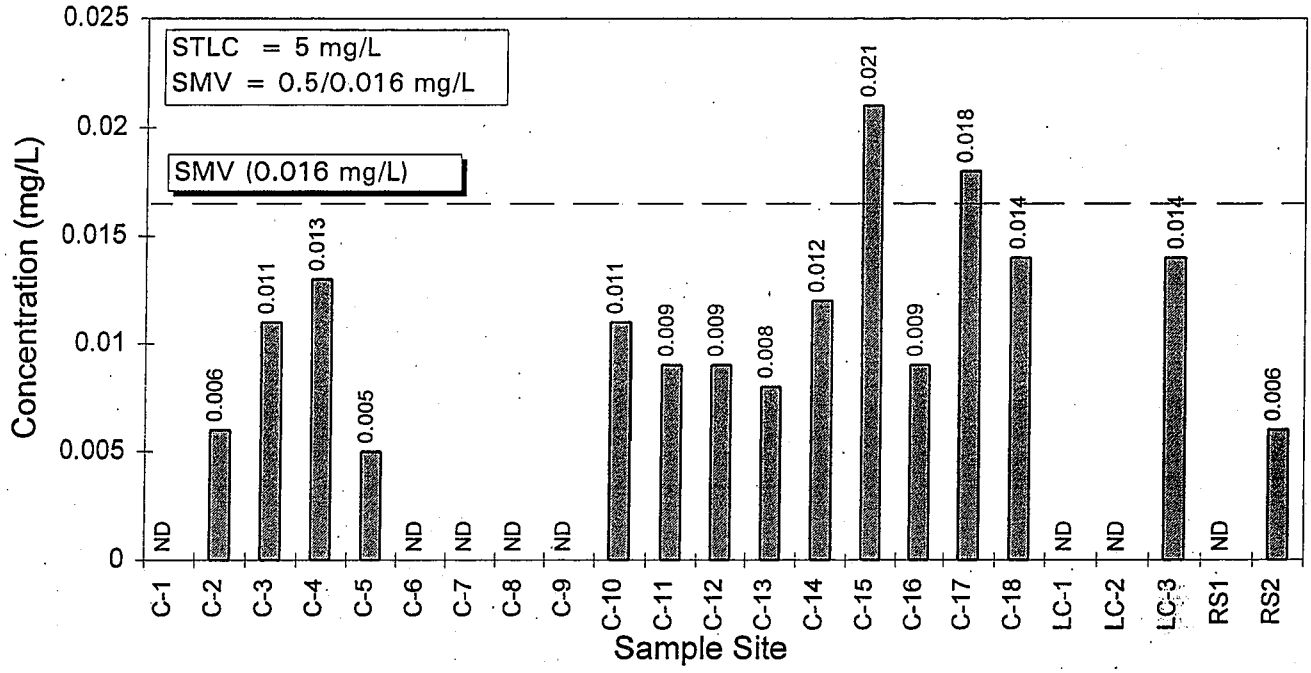


Figure 51. Soluble Copper Concentrations in Soil Samples

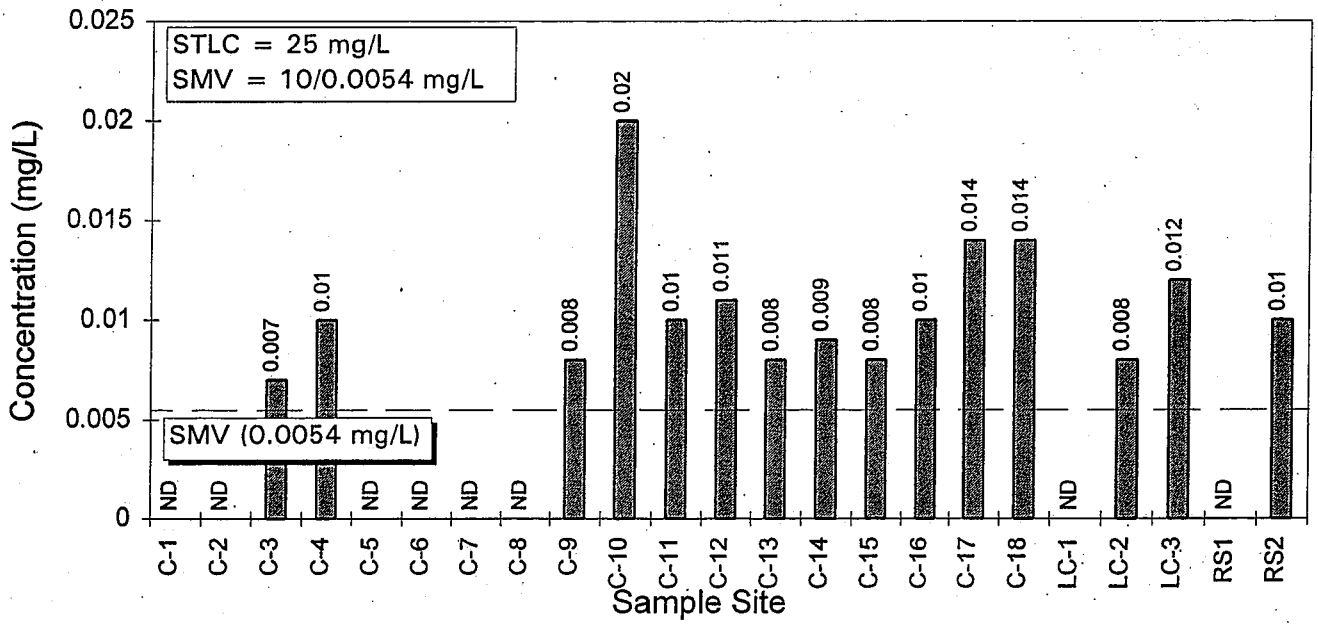


Figure 52. Soluble Lead Concentrations in Soil Samples

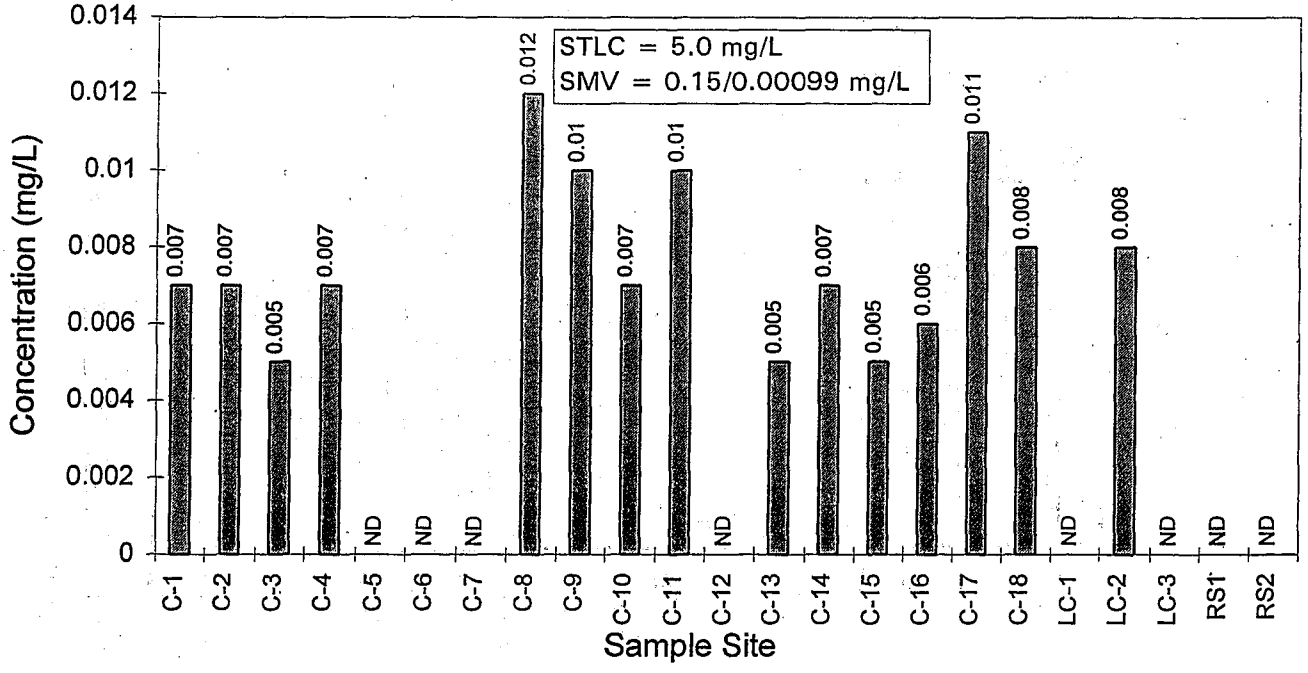


Figure 53. Soluble Nickel Concentrations in Soil Samples

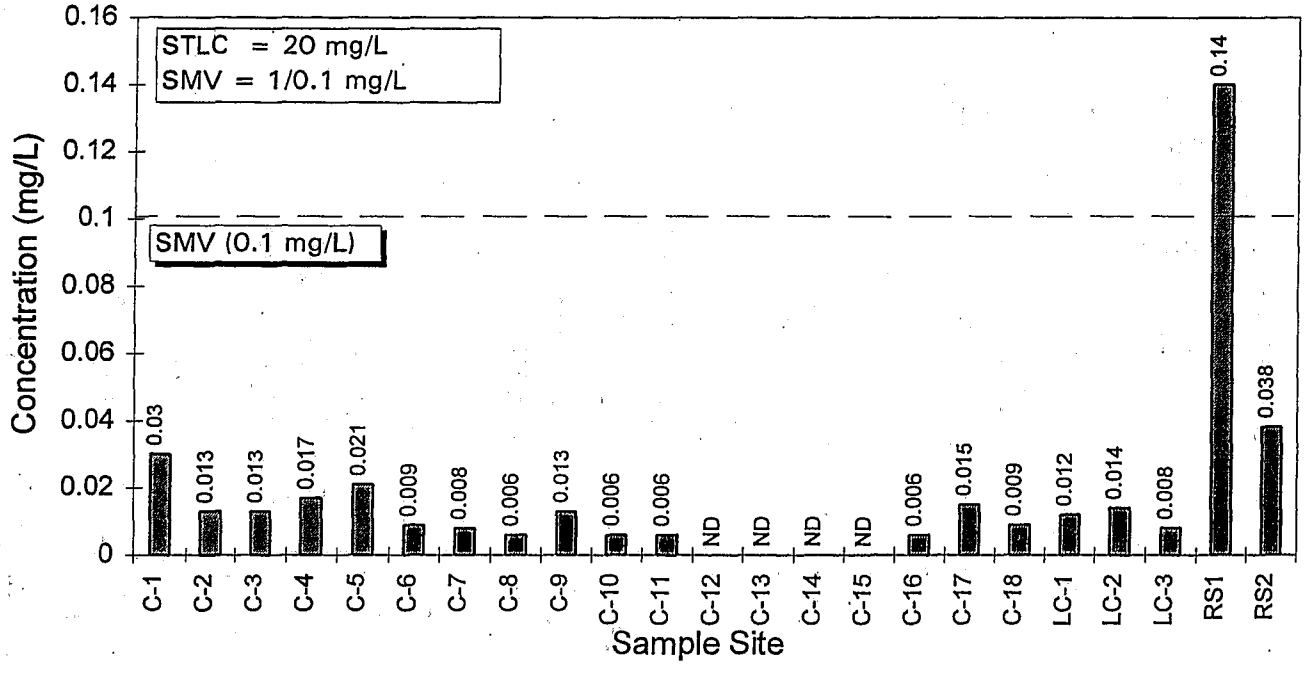


Figure 54. Soluble Zinc Concentrations in Soil Samples

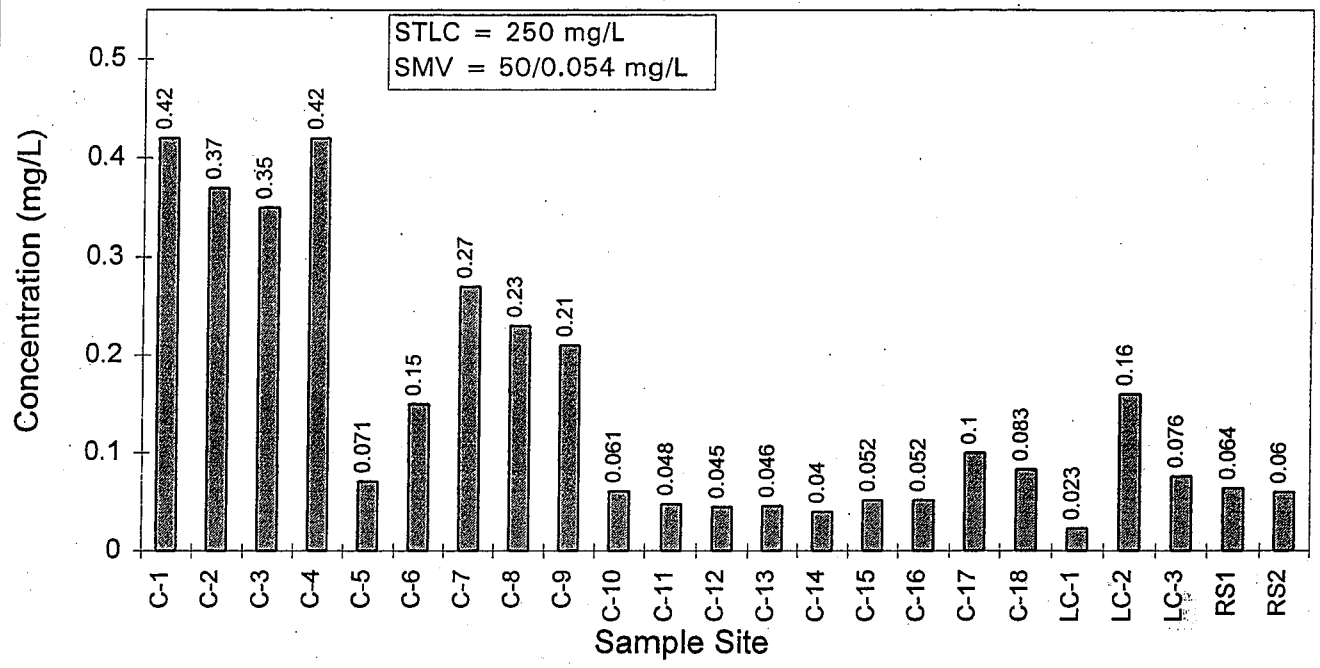


Figure 55. Soluble Total Dissolved Solids Concentrations in Soil Samples

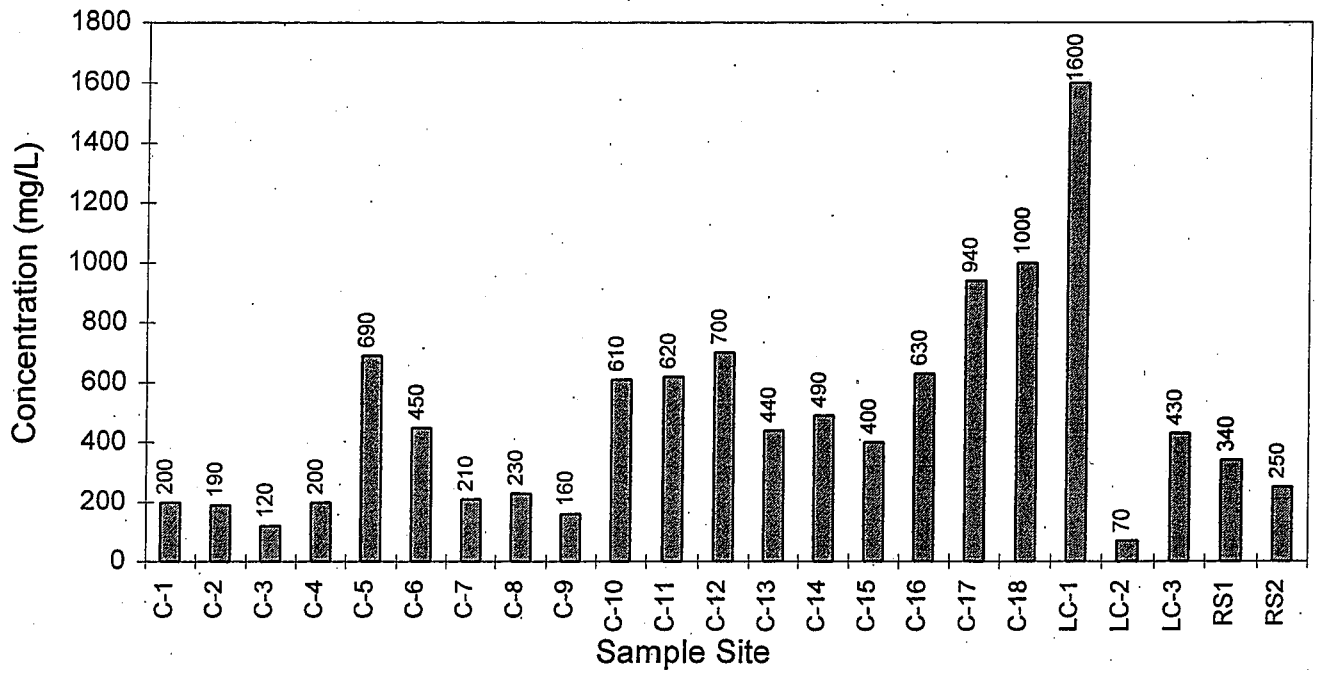
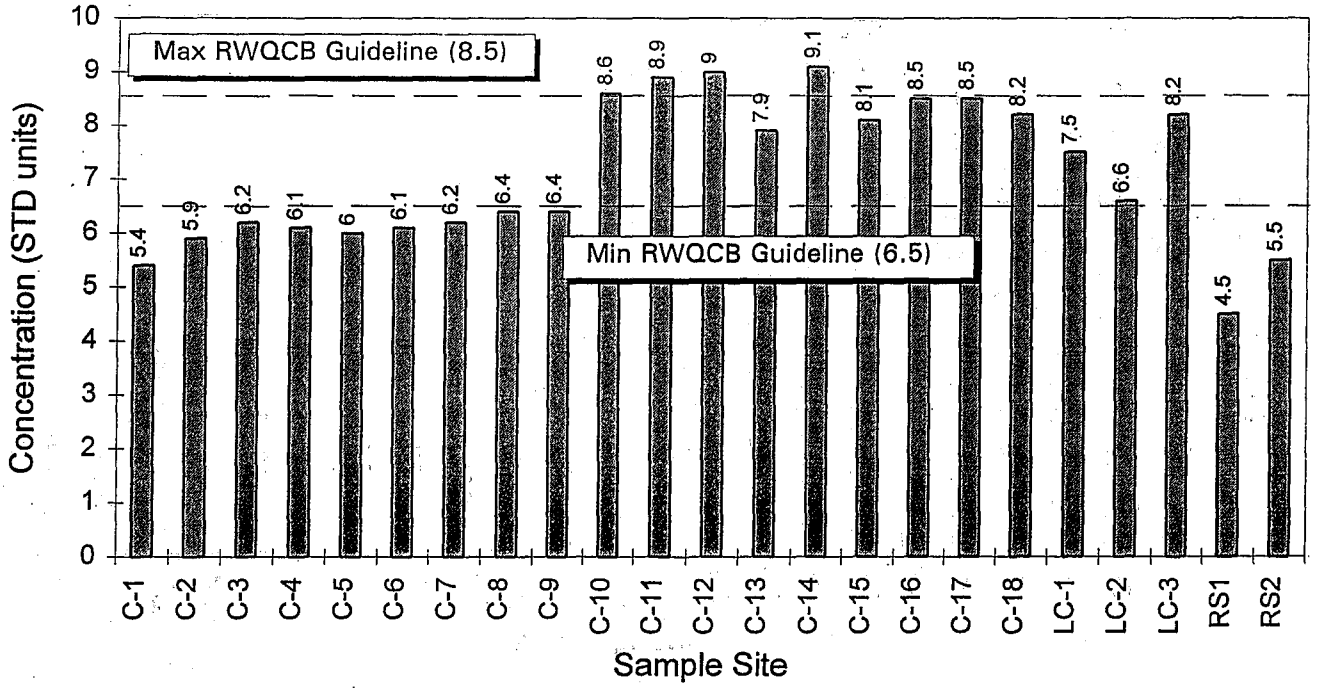


Figure 56. Soluble pH Concentrations in Soil Samples



Appendix B

Tables 1 to 5

Table 1. Parameters for Chemical Analysis of Background Receiving and Main Drain Water Samples

Constituent	Units	DWR Reporting Limit	EPA Test Method
Conventionals			
Fluoride	mg/L	0.1	340.2
Sulfate	mg/L	1.0	375.2
Chloride	mg/L	1.0	325.2
pH	Standard Units		150.1
Boron	mg/L	0.1	USGS I-2115-85
Bromide	mg/L	0.01	300.0
Calcium	mg/L	1.0	215.1
Dissolved Organic Carbon	mg/L	0.1	415.1
Dissolved Sulfide	mg/L	0.1	subcontracted
Total Sulfide	mg/L	0.1	subcontracted
Magnesium	mg/L	1	242.1
Potassium	mg/L	0.1	258.1
Sodium	mg/L	1	273.1
Total Alkalinity	mg/L	1	310.1
Suspended Solids	mg/L	1	160.2
Total Dissolved Solids	mg/L	1	160.1
Hardness	mg/L as $CaCO_3$	5	Calc.
Specific Conductance	μmhos/cm	1	120.1
Oil & Grease	mg/L	5.0	413.1
Pesticides & PCB's			
Aroclor-1016	μg/L	0.1	608
Aroclor-1221	μg/L	0.1	608

Table 1. Parameters for Chemical Analysis of Background Receiving and Main Drain Water Samples *(Continued)*

Constituent	Units	DWR Reporting Limit	EPA Test Method
Aroclor-1232	µg/L	0.1	608
Aroclor-1242	µg/L	0.1	608
Aroclor-1248	µg/L	0.1	608
Aroclor-1254	µg/L	0.1	608
Aroclor-1260	µg/L	0.1	608
Alachlor	µg/L	0.01/0.05	608
Aldrin	µg/L	0.01	608
Atrazine	µg/L	0.01/0.02	608
BHC-alpha	µg/L	0.01	608
BHC - beta	µg/L	0.01/0.02	608
BHC - delta	µg/L	0.01	608
BHC - gamma	µg/L	0.01	608
Captan	µg/L	0.02	608
Chlordane	µg/L	0.05	608
Chlorothalonil	µg/L	0.01/0.05	608
Chlorpropham	µg/L	0.02	608
Chlorpyrifos	µg/L	0.01	608
DCPA	µg/L	0.01	608
4,4 DDD	µg/L	0.01	608
4,4 DDE	µg/L	0.01	608
4,4 DDT	µg/L	0.01	608
Dichloran	µg/L	0.01	608
Dicofol	µg/L	0.01	608
Dieldrin	µg/L	0.01	608

Table 1. Parameters for Chemical Analysis of Background Receiving and Main Drain Water Samples *(Continued)*

Constituent	Units	DWR Reporting Limit	EPA Test Method
Diuron	μg/L	0.05	608
Endosulfan I	μg/L	0.01	608
Endosulfan II	μg/L	0.01	608
Endosulfan Sulfate	μg/L	0.01	608
Endrin	μg/L	0.01	608
Endrin Aldehyde	μg/L	0.01	608
Heptachlor	μg/L	0.01	608
Heptachlor Epoxide	μg/L	0.01	608
Methoxychlor	μg/L	0.01	608
Metolachlor	μg/L	0.2	608
Oxyfluorfen	μg/L	0.2	608
PCNB	μg/L	0.01	608
Simazine	μg/L	0.02	608
Thiobencarb	μg/L	0.02	608
Toxaphene	μg/L	0.2	608
Trace Elements and Metals			
Arsenic	mg/L	0.001	206.3
Cadmium	mg/L	0.005/0.05	213.2
Chromium	mg/L	0.005	218.2
Copper	mg/L	0.005	220.2
Lead	mg/L	0.002/0.02	239.2
Mercury	mg/L	0.001	245.1
Nickel	mg/L	0.005/0.05	249.2
Selenium	mg/L	0.001	270.3

Table 1. Parameters for Chemical Analysis of Background Receiving and Main Drain Water Samples *(Continued)*

Constituent	Units	DWR Reporting Limit	EPA Test Method
Silver	mg/L	0.005/0.05	272.2
Thallium	mg/L	0.005-0.05	per lab
Zinc	mg/L	0.005	289.2

Table 2. Parameters for Chemical Analysis of Background Soil Samples

Parameter	EPA Method	BSK Detection Limit
Conventionals (mg/kg)		
Grain Size		subcontracted
Specific Conductance	120.1	1.0 μmhos/cm
Total Organic Carbon	ASTM 10-3	10
Oil and Grease	9071	20/50
Total Volatile Solids	160.1	0.01%
Acid Generation Potential	subcontracted	subcontracted
% Moisture	160.3	0.01%
pH	9045	Std. Units
Metals (mg/kg)		
Ag	272.2	0.05
As	206.2	0.4
Cd	213.2	0.5
Cr	218.2	1.0
Cu	220.2	0.4
Hg	200.7	0.1
Ni	249.2	0.1
Pb	239.2	0.1
Se	270.2	0.4
Tl	279.2	1.0
Zn	200.7	0.4
WET Metals (DI water) (mg/L)		
Ag	200.7	0.002
As	206.2	0.002
Cd	200.7	0.005

Table 2. Parameters for Chemical Analysis of Background Soil Samples
(Continued)

Parameter	EPA Method	BSK Detection Limit
Cr	200.7	0.005
Cu	200.7	0.005
Hg	245.1/245.2	0.0002
Ni	249.2	0.005
Pb	239.2	0.005
Se	270.2	0.002
Zn	200.7	0.003
Organic Compounds (mg/kg)		
PCBs[1]	8080	0.005-0.2
Pesticides[2]	8080	0.005-0.2
Phthalate Esters	8270	0.02
PAHs[3]	8310	0.02

1 Reported as Arocolor equivalents 1242, 1248, 1254, 260 and total PCB.
2 All compounds on EPA Method 608 list.
3 All compounds on EPA Method 610 list.

Table 3. Water Quality Standards

Constituent	Water Quality Objective (μg/L)	RWQCB Approved EPA Method	Drinking Water Primary MCL (mg/L)
Trace Metals and Inorganics			
Aluminum			1
Antimony			0.006
Arsenic	190	206.3	0.05
Barium			2
Beryllium			0.004
Cadmium	0.55	213.2	0.005
Chloride			250[a]
Chromium	11	218.2	0.05
Copper	5.4	220.2	1.0
Cyanide	5.2	335.2 or 335.3	0.2
Fluoride			1.3
Iron			0.3[a]
Lead	0.99	239.2	1.4-2.4[b]
Manganese			0.05[a]
Mercury			0.002
Nickel	73	200.7	0.1
pH			6.5-8.5[a]
Selenium	5.0	270.3	0.05
Silver			0.05
Sulfate			250[a]
TBT	0.02	**	
Thallium			0.002
Total Dissolved Solids (TDS)			500[a]

Table 3. Water Quality Standards *(Continued)*

Constituent	Water Quality Objective (μg/L)	RWQCB Approved EPA Method	Drinking Water Primary MCL (mg/L)
Turbidity			1-5 NTU[c]
Zinc	49	200.7	5.0[a]
Organics			
Alachlor			0.002
Aldrin			
Atrazine			0.003
BHC - alpha			
BHC - beta			
BHC - delta			
BHC - gamma	0.08*		0.0002
Captan			
Chlordane	0.0043*		0.002
Chlorothalonil			
Chlorpropham			
Chlorpyrifos			
DCPA			
4,4 DDD	0.001*		
4,4 DDE	0.001*		
4,4 DDT	0.001*	608	
Dichloran			
Dicofol			
Dieldrin	0.0019	608	
Diuron			
Endosulfan I	0.056	608	

Table 3. Water Quality Standards *(Continued)*

Constituent	Water Quality Objective (μg/L)	RWQCB Approved EPA Method	Drinking Water Primary MCL (mg/L)
Endosulfan II	0.056	608	
Endosulfan Sulfate	0.056	608	
Endrin	0.0023	608	0.002
Endrin Aldehyde			
Heptachlor	0.0038	608	0.0004
Heptachlor Epoxide			0.0002
Methoxychlor			0.04
PCBs (total)	0.014*	608	0.0005
PCNB			
Simazine			0.004
Thiobencarb			0.07
Toxaphene	0.0002	608	0.003

* - Daily Average
** - Submit Test Method for Approval
MFL - Million Fibers per Liter
[a] - Secondary MCL
[b] - Depends on annual average of maximum daily air temperatures
[c] - 1 NTU (Nephelometric Turbidity Unit); monthly average, 5 NTU two-day consecutive average

Table 4. Sediment Standards and Criteria

Contaminants	California Code of Regulations, Title 22		SFRWQCB Criteria	CVRWQCB General Order Waste Discharge Requirements		
	TTLC (mg/kg wet wt.)	STLC (mg/L)	(mg/kg dry weight)	Dryside Disposal TMV (mg/kg)*	No discharge to the river SMV (mg/L)	With decant water discharge to the river SMV (mg/L)
Trace Metals and Inorganics						
Arsenic	500	5.0	33	33	0.5	0.05
Cadmium	100	1.0	5.0	5	0.005	0.0005
Chromium	2500	5	220	80	0.5	0.016
Copper	2500	25	90	70	10	0.0054
Lead	1000	5.0	50	35	0.15	0.00099
Mercury	20	0.2	0.35	0.35	0.02	0.002
Nickel	2000	20	140	30	1	0.1
Selenium	100	1.0	0.7	0.7	0.1	0.01
Silver	500	5	1.0	1	0.5	0.00084
Thallium				5	0.02	0.002
Zinc	5000	250	160	120	50.0	0.054
Organics						
Aldrin	1.4		0.8			
BHC - alpha			1.0			
BHC - beta			21			
BHC - gamma						
BHC - delta						
Dieldrin	8.0		91	1.1		0.0000019
4,4 DDE	1.0		19			
4,4 DDD	1.0		6.0			

Table 4. Sediment Standards and Criteria (*Continued*)

Contaminants	California Code of Regulations, Title 22		SFRWQCB Criteria	CVRWQCB General Order Waste Discharge Requirements		
	TTLC (mg/kg wet wt.)	STLC (mg/L)	(mg/kg dry weight)	Dryside Disposal TMV (mg/kg)*	No discharge to the river SMV (mg/L)	With decant water discharge to the river SMV (mg/L)
4,4 DDT	1.0		12	2.4		0.000001
Tributyltin				0.2		0.000026
Endosulfan Sulfate						
Endosulfan I						
Endosulfan II						
Endrin	0.2		130			
Endrin Aldehyde						
Methoxychlor	100					
PCB (total)	50		53			
PCB - 1016						
PCB - 1248						
PCB - 1254						
PCB - 1260						
Toxaphene	5					
Total PAHs			4			

* Total Maximum dry weight normalized as Organic Carbon (OC) (mg/kg dry weight divided by dissolved organic carbon).

TTLC: California Department of Toxic Substances and Control - Total Threshold Limit Concentrations. TTLCs are standards set by the California Code of Regulations, Title 22, Chapter 11. TTLC represents the total concentration of a constituent that may be present before a waste is classified as a hazardous waste.

STLC: California Department of Toxic Substances and Control - Soluble Threshold Limit Concentrations. As with TTLCs, STLCs are a set of standards set by the California Code of Regulations, Title 22, Chapter 11. STLC represents the amount of a constituent that may be present in the waste extract, as determined using the Waste Extraction Test (CCR, Title 22, Division 4.5, Chapter 11, Appendix II) before a waste is classified as a hazardous waste.

San Francisco Bay RWQCB Criteria: San Francisco Bay Regional Water Quality Control Board - Disposal Option Sediment Screening Criteria for Levee Restoration. These criteria provide sediment screening criteria for the beneficial reuse of dredged material such as levee restoration. The criteria are set for the protection of biological organisms.

CVRWQCB General Order Waste Discharge Requirements: Central Valley Regional Water Quality Control Board- Draft General Order Waste Discharge Requirements for Dredging Activities Associated with Maintenance and New Construction Projects in the Delta. These draft criteria set maximum dredge sediment values for several constituents. Sediments with constituent values below the criteria are considered inert.

Table 5. Soil Classification for Road Side, Levee Samples, and Spoils

Sample Site	Sample Number	Group Symbol	Group Name
RS-1	C961015		Fine-grained
RS-2	C961016		Fine-grained
LC-1	C960992-94		Fine-grained
LC-2	C960995-96	SM or SC	Silty sand or Silty clay
LC-3	C961007-09		Fine-grained
C-1	C961018-20	PT	Peat
C-2	C961021-23	PT	Peat
C-3	C961024-26	PT	Peat
C-4	C961496-98	PT	Peat
C-5	C961030-32	PT	Peat
C-6	C961033-36	PT	Peat
C-7	C961037-39	PT	Peat
C-8	C960958-60	PT	Peat
C-9	C960961-63	PT	Peat
C-10	C960964-66		Fine-grained
C-11	C960967-69		Fine-grained
C-12	C960970-72		Fine-grained
C-13	C960973-75		Fine-grained
C-14	C960976-78		Fine-grained
C-15	C960979-81		Fine-grained
C-16	C960982-85		Fine-grained
C-17	C960986-88		Fine-grained
C-18	C960989-91		Fine-grained

SM = Silty Sand

SC = Sandy Clay

PT = Peat

Appendix C

Byron Tract Water Quality Data

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
BTD	C961017	5/29/96	Alkalinity	136	mg/L	1
BTD	C961017	5/29/96	Arsenic,Diss.	0.002	mg/L	0.001
BTD	C961017	5/29/96	Boron, Diss.	2.2	mg/L	0.1
BTD	C961017	5/29/96	Bromide, Total	0.53	mg/L	0.01
BTD	C961017	5/29/96	Cadmium, Diss.	0	mg/L	0.005
BTD	C961017	5/29/96	Calcium Diss.	54	mg/L	1
BTD	C961017	5/29/96	Chloride, Diss.	229	mg/L	1
BTD	C961017	5/29/96	Chromium. Diss.	0	mg/L	0.005
BTD	C961017	5/29/96	Copper, Diss.	0	mg/L	0.005
BTD	C961017	5/29/96	Dissolved Organic Carbon	9.6	mg/L	0.1
BTD	C961017	5/29/96	Dissolved Sulfide	0	mg/L	0.1
BTD	C961017	5/29/96	Field Dissolved Oxygen	9.48	mg/L	
BTD	C961017	5/29/96	Field Electrical Conductivity	1350	µmhos/cm	
BTD	C961017	5/29/96	Field pH	7.59	Standard Unit	
BTD	C961017	5/29/96	Field Temperature	18.6	°C	
BTD	C961017	5/29/96	Field Turbidity	42.5	NTU	
BTD	C961017	5/29/96	Fluoride, Diss.	0.4	mg/L	0.1
BTD	C961017	5/29/96	Hardness, (mg/L as CaCO3)	275	mg/L	
BTD	C961017	5/29/96	Lead, Diss.	0	mg/L	0.002
BTD	C961017	5/29/96	Magnesium Diss.	34	mg/L	1
BTD	C961017	5/29/96	Mercury, Diss.	0	mg/L	0.001
BTD	C961017	5/29/96	Nickel, Diss.	0.005	mg/L	0.005
BTD	C961017	5/29/96	Potassium, Diss.	4.1	mg/L	0.1
BTD	C961017	5/29/96	Selenium, Diss.	0	mg/L	0.001
BTD	C961017	5/29/96	Silver, Diss.	0	mg/L	0.005
BTD	C961017	5/29/96	Sodium, Diss.	192	mg/L	1
BTD	C961017	5/29/96	Specific Conductance	1460	mg/L	
BTD	C961017	5/29/96	Sulfate, Diss.	220	mg/L	1
BTD	C961017	5/29/96	Suspended Solids	229	mg/L	1
BTD	C961017	5/29/96	Thallium	0	mg/L	0.002
BTD	C961017	5/29/96	Total Dissolved Solids	860	mg/L	1
BTD	C961017	5/29/96	Total Sulfide	0.2	mg/L	0.1
BTD	C961017	5/29/96	Zinc, Diss.	0.01	mg/L	0.005
BTD2	C961012	5/29/96	Alkalinity	384	mg/L	1
BTD2	C961012	5/29/96	Arsenic,Diss.	0	mg/L	0.001
BTD2	C961012	5/29/96	Boron, Diss.	110	mg/L	0.1
BTD2	C961012	5/29/96	Bromide, Total	46.8	mg/L	0.01
BTD2	C961012	5/29/96	Cadmium, Diss.	0	mg/L	0.05
BTD2	C961012	5/29/96	Calcium Diss.	1110	mg/L	1
BTD2	C961012	5/29/96	Chloride, Diss.	16800	mg/L	1
BTD2	C961012	5/29/96	Chromium. Diss.	0	mg/L	0.005
BTD2	C961012	5/29/96	Copper, Diss.	0	mg/L	0.005
BTD2	C961012	5/29/96	Dissolved Organic Carbon	14.4	mg/L	0.1

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
BTD2	C961012	5/29/96	Dissolved Sulfide	0	mg/L	0.1
BTD2	C961012	5/29/96	Field Dissolved Oxygen	10.6	mg/L	
BTD2	C961012	5/29/96	Field Electrical Conductivity	20000	µmhos/cm	
BTD2	C961012	5/29/96	Field pH	7.8	Standard Unit	
BTD2	C961012	5/29/96	Field Temperature	20.9	°C	
BTD2	C961012	5/29/96	Field Turbidity	41.6	NTU	
BTD2	C961012	5/29/96	Fluoride, Diss.	0.6	mg/L	0.1
BTD2	C961012	5/29/96	Hardness, (mg/L as CaCO3)	7470	mg/L	
BTD2	C961012	5/29/96	Lead, Diss.	0.003	mg/L	0.002
BTD2	C961012	5/29/96	Magnesium Diss.	1140	mg/L	1
BTD2	C961012	5/29/96	Mercury, Diss.	0	mg/L	0.001
BTD2	C961012	5/29/96	Nickel, Diss.	0.006	mg/L	0.005
BTD2	C961012	5/29/96	Potassium, Diss.	8.5	mg/L	0.1
BTD2	C961012	5/29/96	Selenium, Diss.	0	mg/L	0.001
BTD2	C961012	5/29/96	Silver, Diss.	0	mg/L	0.05
BTD2	C961012	5/29/96	Sodium, Diss.	8360	mg/L	1
BTD2	C961012	5/29/96	Specific Conductance	43500	mg/L	
BTD2	C961012	5/29/96	Sulfate, Diss.	1070	mg/L	1
BTD2	C961012	5/29/96	Suspended Solids	118	mg/L	1
BTD2	C961012	5/29/96	Thallium	0	mg/L	0.025
BTD2	C961012	5/29/96	Total Dissolved Solids	30500	mg/L	1
BTD2	C961012	5/29/96	Total Sulfide	0	mg/L	0.1
BTD2	C961012	5/29/96	Zinc, Diss.	0.018	mg/L	0.005
BTD3	C961014	5/29/96	Alkalinity	927	mg/L	1
BTD3	C961014	5/29/96	Arsenic,Diss.	0.017	mg/L	0.001
BTD3	C961014	5/29/96	Boron, Diss.	320	mg/L	0.1
BTD3	C961014	5/29/96	Bromide, Total	65	mg/L	0.01
BTD3	C961014	5/29/96	Cadmium, Diss.	0	mg/L	0.05
BTD3	C961014	5/29/96	Calcium Diss.	522	mg/L	1
BTD3	C961014	5/29/96	Chloride, Diss.	24000	mg/L	1
BTD3	C961014	5/29/96	Chromium. Diss.	0	mg/L	0.005
BTD3	C961014	5/29/96	Copper, Diss.	0.008	mg/L	0.005
BTD3	C961014	5/29/96	Dissolved Organic Carbon	34.8	mg/L	0.1
BTD3	C961014	5/29/96	Dissolved Sulfide	0.3	mg/L	0.1
BTD3	C961014	5/29/96	Field Dissolved Oxygen	9.7	mg/L	
BTD3	C961014	5/29/96	Field Electrical Conductivity	20000	µmhos/cm	
BTD3	C961014	5/29/96	Field pH	8.2	Standard Unit	
BTD3	C961014	5/29/96	Field Temperature	21.1	°C	
BTD3	C961014	5/29/96	Field Turbidity	21.6	NTU	
BTD3	C961014	5/29/96	Fluoride, Diss.	0.8	mg/L	0.1
BTD3	C961014	5/29/96	Hardness, (mg/L as CaCO3)	5590	mg/L	
BTD3	C961014	5/29/96	Lead, Diss.	0	mg/L	0.02
BTD3	C961014	5/29/96	Magnesium Diss.	1040	mg/L	1

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
BTD3	C961014	5/29/96	Mercury, Diss.	0	mg/L	0.001
BTD3	C961014	5/29/96	Nickel, Diss.	0	mg/L	0.05
BTD3	C961014	5/29/96	Potassium, Diss.	21	mg/L	0.1
BTD3	C961014	5/29/96	Selenium, Diss.	0.002	mg/L	0.001
BTD3	C961014	5/29/96	Silver, Diss.	0	mg/L	0.05
BTD3	C961014	5/29/96	Sodium, Diss.	14000	mg/L	1
BTD3	C961014	5/29/96	Specific Conductance	59300	mg/L	
BTD3	C961014	5/29/96	Sulfate, Diss.	1170	mg/L	1
BTD3	C961014	5/29/96	Suspended Solids	20	mg/L	1
BTD3	C961014	5/29/96	Thallium	0	mg/L	0.05
BTD3	C961014	5/29/96	Total Dissolved Solids	43100	mg/L	1
BTD3	C961014	5/29/96	Total Sulfide	0.3	mg/L	0.1
BTD3	C961014	5/29/96	Zinc, Diss.	0.009	mg/L	0.005
R1	C960957	5/7/96	4,4'-DDD	0	µg/L	0.01
R1	C960957	5/7/96	4,4'-DDE	0	µg/L	0.01
R1	C960957	5/7/96	4,4'-DDT	0	µg/L	0.01
R1	C960957	5/7/96	Alachlor	0	µg/L	0.05
R1	C960957	5/7/96	Aldrin	0	µg/L	0.01
R1	C960957	5/7/96	Alkalinity	57	mg/L	1
R1	C960957	5/7/96	Arsenic,Diss.	0.002	mg/L	0.001
R1	C960957	5/7/96	Atrazine	0	µg/L	0.02
R1	C960957	5/7/96	BHC-alpha	0	µg/L	0.01
R1	C960957	5/7/96	BHC-beta	0	µg/L	0.01
R1	C960957	5/7/96	BHC-delta	0	µg/L	0.01
R1	C960957	5/7/96	BHC-gamma (Lindane)	0	µg/L	0.01
R1	C960957	5/7/96	Boron, Diss.	0.3	mg/L	0.1
R1	C960957	5/7/96	Cadmium, Diss.	0	mg/L	0.005
R1	C960957	5/7/96	Calcium Diss.	19	mg/L	1
R1	C960957	5/7/96	Captan	0	µg/L	0.02
R1	C960957	5/7/96	Chlordane	0	µg/L	0.05
R1	C960957	5/7/96	Chloride, Diss.	52	mg/L	1
R1	C960957	5/7/96	Chlorothalonil	0	µg/L	0.01
R1	C960957	5/7/96	Chlorpropham	0	µg/L	0.02
R1	C960957	5/7/96	Chlorpyrifos	0	µg/L	0.01
R1	C960957	5/7/96	Chromium. Diss.	0	mg/L	0.005
R1	C960957	5/7/96	Copper, Diss.	0	mg/L	0.005
R1	C960957	5/7/96	Dacthal (DCPA)	0	µg/L	0.01
R1	C960957	5/7/96	Dichloran	0	µg/L	0.01
R1	C960957	5/7/96	Dicofol	0	µg/L	0.01
R1	C960957	5/7/96	Dieldrin	0	µg/L	0.01
R1	C960957	5/7/96	Dissolved Organic Carbon	3.4	mg/L	0.1
R1	C960957	5/7/96	Dissolved Sulfide	0	mg/L	0.1
R1	C960957	5/7/96	Diuron	0	µg/L	0.05

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R1	C960957	5/7/96	Endosulfan sulfate	0	µg/L	0.01
R1	C960957	5/7/96	Endosulfan-I	0	µg/L	0.01
R1	C960957	5/7/96	Endosulfan-II	0	µg/L	0.01
R1	C960957	5/7/96	Endrin	0	µg/L	0.01
R1	C960957	5/7/96	Endrin aldehyde	0	µg/L	0.01
R1	C960957	5/7/96	Field Dissolved Oxygen	8.5	mg/L	
R1	C960957	5/7/96	Field Electrical Conductivity	393	µmhos/cm	
R1	C960957	5/7/96	Field pH	7	Standard Unit	
R1	C960957	5/7/96	Field Temperature	19.9	°C	
R1	C960957	5/7/96	Field Turbidity	16.8	NTU	
R1	C960957	5/7/96	Fluoride, Diss.	0	mg/L	0.1
R1	C960957	5/7/96	Hardness, (mg/L as CaCO3)	92	mg/L	
R1	C960957	5/7/96	Heptachlor	0	µg/L	0.01
R1	C960957	5/7/96	Heptachlor epoxide	0	µg/L	0.01
R1	C960957	5/7/96	Lead, Diss.	0	mg/L	0.002
R1	C960957	5/7/96	Magnesium Diss.	11	mg/L	1
R1	C960957	5/7/96	Mercury, Diss.	0	mg/L	0.001
R1	C960957	5/7/96	Methoxychlor	0	µg/L	0.01
R1	C960957	5/7/96	Metolachlor	0	µg/L	0.2
R1	C960957	5/7/96	Nickel, Diss.	0	mg/L	0.005
R1	C960957	5/7/96	Oxyfluorfen	0	µg/L	0.2
R1	C960957	5/7/96	PCB-1016	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1221	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1232	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1242	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1248	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1254	0	µg/L	0.1
R1	C960957	5/7/96	PCB-1260	0	µg/L	0.1
R1	C960957	5/7/96	Pentachloronitrobenzene (PCNB)	0	µg/L	0.01
R1	C960957	5/7/96	Potassium, Diss.	1.8	mg/L	0.1
R1	C960957	5/7/96	Selenium, Diss.	0.001	mg/L	0.001
R1	C960957	5/7/96	Silver, Diss.	0	mg/L	0.005
R1	C960957	5/7/96	Simazine	0	µg/L	0.02
R1	C960957	5/7/96	Sodium, Diss.	44	mg/L	1
R1	C960957	5/7/96	Specific Conductance	412	mg/L	
R1	C960957	5/7/96	Sulfate, Diss.	54	mg/L	1
R1	C960957	5/7/96	Suspended Solids	18	mg/L	1
R1	C960957	5/7/96	Thallium	0	mg/L	0.005
R1	C960957	5/7/96	Thiobencarb	0	µg/L	0.02
R1	C960957	5/7/96	Total Dissolved Solids	232	mg/L	1
R1	C960957	5/7/96	Total Sulfide	0	mg/L	0.1
R1	C960957	5/7/96	Toxaphene	0	µg/L	0.2
R1	C960957	5/7/96	Zinc, Diss.	0.016	mg/L	0.005

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R2	C960984	5/7/96	4,4'-DDD	0	µg/L	0.01
R2	C960984	5/7/96	4,4'-DDE	0	µg/L	0.01
R2	C960984	5/7/96	4,4'-DDT	0	µg/L	0.01
R2	C960984	5/7/96	Alachlor	0	µg/L	0.01
R2	C960984	5/7/96	Aldrin	0	µg/L	0.01
R2	C960984	5/7/96	Alkalinity	55	mg/L	1
R2	C960984	5/7/96	Arsenic,Diss.	0.001	mg/L	0.001
R2	C960984	5/7/96	Atrazine	0	µg/L	0.01
R2	C960984	5/7/96	BHC-alpha	0	µg/L	0.01
R2	C960984	5/7/96	BHC-beta	0	µg/L	0.02
R2	C960984	5/7/96	BHC-delta	0	µg/L	0.01
R2	C960984	5/7/96	BHC-gamma (Lindane)	0	µg/L	0.01
R2	C960984	5/7/96	Boron, Diss.	0.3	mg/L	0.1
R2	C960984	5/7/96	Cadmium, Diss.	0	mg/L	0.005
R2	C960984	5/7/96	Calcium Diss.	19	mg/L	1
R2	C960984	5/7/96	Captan	0	µg/L	0.02
R2	C960984	5/7/96	Chlordane	0	µg/L	0.05
R2	C960984	5/7/96	Chloride, Diss.	51	mg/L	1
R2	C960984	5/7/96	Chlorothalonil	0	µg/L	0.05
R2	C960984	5/7/96	Chlorpropham	0	µg/L	0.02
R2	C960984	5/7/96	Chlorpyrifos	0	µg/L	0.01
R2	C960984	5/7/96	Chromium. Diss.	0	mg/L	0.005
R2	C960984	5/7/96	Copper, Diss.	0	mg/L	0.005
R2	C960984	5/7/96	Dacthal (DCPA)	0	µg/L	0.01
R2	C960984	5/7/96	Dichloran	0	µg/L	0.01
R2	C960984	5/7/96	Dicofol	0	µg/L	0.01
R2	C960984	5/7/96	Dieldrin	0	µg/L	0.01
R2	C960984	5/7/96	Dissolved Organic Carbon	2.8	mg/L	0.1
R2	C960984	5/7/96	Dissolved Sulfide	0	mg/L	0.1
R2	C960984	5/7/96	Diuron	0	µg/L	0.05
R2	C960984	5/7/96	Endosulfan sulfate	0	µg/L	0.01
R2	C960984	5/7/96	Endosulfan-I	0	µg/L	0.01
R2	C960984	5/7/96	Endosulfan-II	0	µg/L	0.01
R2	C960984	5/7/96	Endrin	0	µg/L	0.01
R2	C960984	5/7/96	Endrin aldehyde	0	µg/L	0.01
R2	C960984	5/7/96	Field Dissolved Oxygen	8.4	mg/L	
R2	C960984	5/7/96	Field Electrical Conductivity	393	µmhos/cm	
R2	C960984	5/7/96	Field pH	7.3	Standard Unit	
R2	C960984	5/7/96	Field Temperature	19.9	°C	
R2	C960984	5/7/96	Field Turbidity	14.8	NTU	
R2	C960984	5/7/96	Fluoride, Diss.	0	mg/L	0.1
R2	C960984	5/7/96	Hardness, (mg/L as CaCO3)	92	mg/L	
R2	C960984	5/7/96	Heptachlor	0	µg/L	0.01

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R2	C960984	5/7/96	Heptachlor epoxide	0	µg/L	0.01
R2	C960984	5/7/96	Lead, Diss.	0	mg/L	0.002
R2	C960984	5/7/96	Magnesium Diss.	11	mg/L	1
R2	C960984	5/7/96	Mercury, Diss.	0	mg/L	0.001
R2	C960984	5/7/96	Methoxychlor	0	µg/L	0.01
R2	C960984	5/7/96	Metolachlor	0	µg/L	0.2
R2	C960984	5/7/96	Nickel, Diss.	0	mg/L	0.005
R2	C960984	5/7/96	Oxyfluorfen	0	µg/L	0.2
R2	C960984	5/7/96	PCB-1016	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1221	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1232	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1242	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1248	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1254	0	µg/L	0.1
R2	C960984	5/7/96	PCB-1260	0	µg/L	0.1
R2	C960984	5/7/96	Pentachloronitrobenzene (PCNB)	0	µg/L	0.01
R2	C960984	5/7/96	Potassium, Diss.	1.8	mg/L	0.1
R2	C960984	5/7/96	Selenium, Diss.	0.001	mg/L	0.001
R2	C960984	5/7/96	Silver, Diss.	0	mg/L	0.005
R2	C960984	5/7/96	Simazine	0	µg/L	0.02
R2	C960984	5/7/96	Sodium, Diss.	44	mg/L	1
R2	C960984	5/7/96	Specific Conductance	405	mg/L	
R2	C960984	5/7/96	Sulfate, Diss.	56	mg/L	1
R2	C960984	5/7/96	Suspended Solids	14	mg/L	1
R2	C960984	5/7/96	Thallium	0	mg/L	0.005
R2	C960984	5/7/96	Thiobencarb	0	µg/L	0.02
R2	C960984	5/7/96	Total Dissolved Solids	229	mg/L	1
R2	C960984	5/7/96	Total Sulfide	0	mg/L	0.1
R2	C960984	5/7/96	Toxaphene	0	µg/L	0.2
R2	C960984	5/7/96	Zinc, Diss.	0.008	mg/L	0.005
R3	C961006	5/8/96	4,4'-DDD	0	µg/L	0.01
R3	C961006	5/8/96	4,4'-DDE	0	µg/L	0.01
R3	C961006	5/8/96	4,4'-DDT	0	µg/L	0.01
R3	C961006	5/8/96	Alachlor	0	µg/L	0.05
R3	C961006	5/8/96	Aldrin	0	µg/L	0.01
R3	C961006	5/8/96	Alkalinity	61	mg/L	1
R3	C961006	5/8/96	Arsenic,Diss.	0.002	mg/L	0.001
R3	C961006	5/8/96	Atrazine	0	µg/L	0.02
R3	C961006	5/8/96	BHC-alpha	0	µg/L	0.01
R3	C961006	5/8/96	BHC-beta	0	µg/L	0.01
R3	C961006	5/8/96	BHC-delta	0	µg/L	0.01
R3	C961006	5/8/96	BHC-gamma (Lindane)	0	µg/L	0.01
R3	C961006	5/8/96	Boron, Diss.	0.3	mg/L	0.1

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R3	C961006	5/8/96	Cadmium, Diss.	0	mg/L	0.005
R3	C961006	5/8/96	Calcium Diss.	18	mg/L	1
R3	C961006	5/8/96	Captan	0	µg/L	0.02
R3	C961006	5/8/96	Chlordane	0	µg/L	0.05
R3	C961006	5/8/96	Chloride, Diss.	50	mg/L	1
R3	C961006	5/8/96	Chlorothalonil	0	µg/L	0.01
R3	C961006	5/8/96	Chlorpropham	0	µg/L	0.02
R3	C961006	5/8/96	Chlorpyrifos	0	µg/L	0.01
R3	C961006	5/8/96	Chromium. Diss.	0	mg/L	0.005
R3	C961006	5/8/96	Copper, Diss.	0	mg/L	0.005
R3	C961006	5/8/96	Dacthal (DCPA)	0	µg/L	0.01
R3	C961006	5/8/96	Dichloran	0	µg/L	0.01
R3	C961006	5/8/96	Dicofol	0	µg/L	0.01
R3	C961006	5/8/96	Dieldrin	0	µg/L	0.01
R3	C961006	5/8/96	Dissolved Organic Carbon	2.7	mg/L	0.1
R3	C961006	5/8/96	Dissolved Sulfide	0	mg/L	0.1
R3	C961006	5/8/96	Diuron	0	µg/L	0.05
R3	C961006	5/8/96	Endosulfan sulfate	0	µg/L	0.01
R3	C961006	5/8/96	Endosulfan-I	0	µg/L	0.01
R3	C961006	5/8/96	Endosulfan-II	0	µg/L	0.01
R3	C961006	5/8/96	Endrin	0	µg/L	0.01
R3	C961006	5/8/96	Endrin aldehyde	0	µg/L	0.01
R3	C961006	5/8/96	Field Dissolved Oxygen	9	mg/L	
R3	C961006	5/8/96	Field Electrical Conductivity	380	µmhos/cm	
R3	C961006	5/8/96	Field pH	7.5	Standard Unit	
R3	C961006	5/8/96	Field Temperature	19.3	°C	
R3	C961006	5/8/96	Field Turbidity	20.9	NTU	
R3	C961006	5/8/96	Fluoride, Diss.	0	mg/L	0.1
R3	C961006	5/8/96	Hardness, (mg/L as CaCO3)	86	mg/L	
R3	C961006	5/8/96	Heptachlor	0	µg/L	0.01
R3	C961006	5/8/96	Heptachlor epoxide	0	µg/L	0.01
R3	C961006	5/8/96	Lead, Diss.	0	mg/L	0.002
R3	C961006	5/8/96	Magnesium Diss.	10	mg/L	1
R3	C961006	5/8/96	Mercury, Diss.	0	mg/L	0.001
R3	C961006	5/8/96	Methoxychlor	0	µg/L	0.01
R3	C961006	5/8/96	Metolachlor	0	µg/L	0.2
R3	C961006	5/8/96	Nickel, Diss.	0	mg/L	0.005
R3	C961006	5/8/96	Oxyfluorfen	0	µg/L	0.2
R3	C961006	5/8/96	PCB-1016	0	µg/L	0.1
R3	C961006	5/8/96	PCB-1221	0	µg/L	0.1
R3	C961006	5/8/96	PCB-1232	0	µg/L	0.1
R3	C961006	5/8/96	PCB-1242	0	µg/L	0.1
R3	C961006	5/8/96	PCB-1248	0	µg/L	0.1

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DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R3	C961006	5/8/96	PCB-1254	0	µg/L	0.1
R3	C961006	5/8/96	PCB-1260	0	µg/L	0.1
R3	C961006	5/8/96	Pentachloronitrobenzene (PCNB)	0	µg/L	0.01
R3	C961006	5/8/96	Potassium, Diss.	1.7	mg/L	0.1
R3	C961006	5/8/96	Selenium, Diss.	0	mg/L	0.001
R3	C961006	5/8/96	Silver, Diss.	0	mg/L	0.005
R3	C961006	5/8/96	Simazine	0	µg/L	0.02
R3	C961006	5/8/96	Sodium, Diss.	43	mg/L	1
R3	C961006	5/8/96	Specific Conductance	396	mg/L	
R3	C961006	5/8/96	Sulfate, Diss.	52	mg/L	1
R3	C961006	5/8/96	Suspended Solids	20	mg/L	1
R3	C961006	5/8/96	Thallium	0	mg/L	0.005
R3	C961006	5/8/96	Thiobencarb	0	µg/L	0.02
R3	C961006	5/8/96	Total Dissolved Solids	225	mg/L	1
R3	C961006	5/8/96	Total Sulfide	0	mg/L	0.1
R3	C961006	5/8/96	Toxaphene	0	µg/L	0.2
R3	C961006	5/8/96	Zinc, Diss.	0	mg/L	0.005
R4	C961010	5/7/96	4,4'-DDD	0	µg/L	0.01
R4	C961010	5/7/96	4,4'-DDE	0	µg/L	0.01
R4	C961010	5/7/96	4,4'-DDT	0	µg/L	0.01
R4	C961010	5/7/96	Alachlor	0	µg/L	0.05
R4	C961010	5/7/96	Aldrin	0	µg/L	0.01
R4	C961010	5/7/96	Alkalinity	58	mg/L	1
R4	C961010	5/7/96	Arsenic,Diss.	0.002	mg/L	0.001
R4	C961010	5/7/96	Atrazine	0	µg/L	0.02
R4	C961010	5/7/96	BHC-alpha	0	µg/L	0.01
R4	C961010	5/7/96	BHC-beta	0	µg/L	0.01
R4	C961010	5/7/96	BHC-delta	0	µg/L	0.01
R4	C961010	5/7/96	BHC-gamma (Lindane)	0	µg/L	0.01
R4	C961010	5/7/96	Boron, Diss.	0.3	mg/L	0.1
R4	C961010	5/7/96	Cadmium, Diss.	0	mg/L	0.005
R4	C961010	5/7/96	Calcium Diss.	19	mg/L	1
R4	C961010	5/7/96	Captan	0	µg/L	0.02
R4	C961010	5/7/96	Chlordane	0	µg/L	0.05
R4	C961010	5/7/96	Chloride, Diss.	50	mg/L	1
R4	C961010	5/7/96	Chlorothalonil	0	µg/L	0.01
R4	C961010	5/7/96	Chlorpropham	0	µg/L	0.02
R4	C961010	5/7/96	Chlorpyrifos	0	µg/L	0.01
R4	C961010	5/7/96	Chromium. Diss.	0	mg/L	0.005
R4	C961010	5/7/96	Copper, Diss.	0	mg/L	0.005
R4	C961010	5/7/96	Dacthal (DCPA)	0	µg/L	0.01
R4	C961010	5/7/96	Dichloran	0	µg/L	0.01
R4	C961010	5/7/96	Dicofol	0	µg/L	0.01

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R4	C961010	5/7/96	Dieldrin	0	µg/L	0.01
R4	C961010	5/7/96	Dissolved Organic Carbon	2.7	mg/L	0.1
R4	C961010	5/7/96	Dissolved Sulfide	0	mg/L	0.1
R4	C961010	5/7/96	Diuron	0.05	µg/L	0.05
R4	C961010	5/7/96	Endosulfan sulfate	0	µg/L	0.01
R4	C961010	5/7/96	Endosulfan-I	0	µg/L	0.01
R4	C961010	5/7/96	Endosulfan-II	0	µg/L	0.01
R4	C961010	5/7/96	Endrin	0	µg/L	0.01
R4	C961010	5/7/96	Endrin aldehyde	0	µg/L	0.01
R4	C961010	5/7/96	Field Dissolved Oxygen	9	mg/L	
R4	C961010	5/7/96	Field Electrical Conductivity	386	µmhos/cm	
R4	C961010	5/7/96	Field pH	7.6	Standard Unit	
R4	C961010	5/7/96	Field Temperature	19.3	°C	
R4	C961010	5/7/96	Field Turbidity	17.3	NTU	
R4	C961010	5/7/96	Fluoride, Diss.	0	mg/L	0.1
R4	C961010	5/7/96	Hardness, (mg/L as CaCO3)	88	mg/L	
R4	C961010	5/7/96	Heptachlor	0	µg/L	0.01
R4	C961010	5/7/96	Heptachlor epoxide	0	µg/L	0.01
R4	C961010	5/7/96	Lead, Diss.	0	mg/L	0.002
R4	C961010	5/7/96	Magnesium Diss.	10	mg/L	1
R4	C961010	5/7/96	Mercury, Diss.	0	mg/L	0.001
R4	C961010	5/7/96	Methoxychlor	0	µg/L	0.01
R4	C961010	5/7/96	Metolachlor	0	µg/L	0.2
R4	C961010	5/7/96	Nickel, Diss.	0	mg/L	0.005
R4	C961010	5/7/96	Oxyfluorfen	0	µg/L	0.2
R4	C961010	5/7/96	PCB-1016	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1221	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1232	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1242	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1248	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1254	0	µg/L	0.1
R4	C961010	5/7/96	PCB-1260	0	µg/L	0.1
R4	C961010	5/7/96	Pentachloronitrobenzene (PCNB)	0	µg/L	0.01
R4	C961010	5/7/96	Potassium, Diss.	1.6	mg/L	0.1
R4	C961010	5/7/96	Selenium, Diss.	0.001	mg/L	0.001
R4	C961010	5/7/96	Silver, Diss.	0	mg/L	0.005
R4	C961010	5/7/96	Simazine	0	µg/L	0.02
R4	C961010	5/7/96	Sodium, Diss.	42	mg/L	1
R4	C961010	5/7/96	Specific Conductance	390	mg/L	
R4	C961010	5/7/96	Sulfate, Diss.	51	mg/L	1
R4	C961010	5/7/96	Suspended Solids	21	mg/L	1
R4	C961010	5/7/96	Thallium	0	mg/L	0.002
R4	C961010	5/7/96	Thiobencarb	0	µg/L	0.02

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R4	C961010	5/7/96	Total Dissolved Solids	226	mg/L	1
R4	C961010	5/7/96	Total Sulfide	0	mg/L	0.1
R4	C961010	5/7/96	Toxaphene	0	µg/L	0.2
R4	C961010	5/7/96	Zinc, Diss.	0	mg/L	0.005
R5	C961011	5/7/96	4,4'-DDD	0	µg/L	0.01
R5	C961011	5/7/96	4,4'-DDE	0	µg/L	0.01
R5	C961011	5/7/96	4,4'-DDT	0	µg/L	0.01
R5	C961011	5/7/96	Alachlor	0	µg/L	0.05
R5	C961011	5/7/96	Aldrin	0	µg/L	0.01
R5	C961011	5/7/96	Alkalinity	56	mg/L	1
R5	C961011	5/7/96	Arsenic,Diss.	0.001	mg/L	0.001
R5	C961011	5/7/96	Atrazine	0	µg/L	0.02
R5	C961011	5/7/96	BHC-alpha	0	µg/L	0.01
R5	C961011	5/7/96	BHC-beta	0	µg/L	0.01
R5	C961011	5/7/96	BHC-delta	0	µg/L	0.01
R5	C961011	5/7/96	BHC-gamma (Lindane)	0	µg/L	0.01
R5	C961011	5/7/96	Boron, Diss.	0.3	mg/L	0.1
R5	C961011	5/7/96	Cadmium, Diss.	0	mg/L	0.005
R5	C961011	5/7/96	Calcium Diss.	18	mg/L	1
R5	C961011	5/7/96	Captan	0	µg/L	0.02
R5	C961011	5/7/96	Chlordane	0	µg/L	0.05
R5	C961011	5/7/96	Chloride, Diss.	49	mg/L	1
R5	C961011	5/7/96	Chlorothalonil	0	µg/L	0.01
R5	C961011	5/7/96	Chlorpropham	0	µg/L	0.02
R5	C961011	5/7/96	Chlorpyrifos	0	µg/L	0.01
R5	C961011	5/7/96	Chromium. Diss.	0	mg/L	0.005
R5	C961011	5/7/96	Copper, Diss.	0	mg/L	0.005
R5	C961011	5/7/96	Dacthal (DCPA)	0	µg/L	0.01
R5	C961011	5/7/96	Dichloran	0	µg/L	0.01
R5	C961011	5/7/96	Dicofol	0	µg/L	0.01
R5	C961011	5/7/96	Dieldrin	0	µg/L	0.01
R5	C961011	5/7/96	Dissolved Organic Carbon	2.7	mg/L	0.1
R5	C961011	5/7/96	Dissolved Sulfide	0	mg/L	0.1
R5	C961011	5/7/96	Diuron	0	µg/L	0.05
R5	C961011	5/7/96	Endosulfan sulfate	0	µg/L	0.01
R5	C961011	5/7/96	Endosulfan-I	0	µg/L	0.01
R5	C961011	5/7/96	Endosulfan-II	0	µg/L	0.01
R5	C961011	5/7/96	Endrin	0	µg/L	0.01
R5	C961011	5/7/96	Endrin aldehyde	0	µg/L	0.01
R5	C961011	5/7/96	Field Dissolved Oxygen	9	mg/L	
R5	C961011	5/7/96	Field Electrical Conductivity	377	µmhos/cm	
R5	C961011	5/7/96	Field pH	7.5	Standard Unit	
R5	C961011	5/7/96	Field Temperature	18.8	°C	

Byron Tract Water Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Result	Units	Detection Limit
R5	C961011	5/7/96	Field Turbidity	17.9	NTU	
R5	C961011	5/7/96	Fluoride, Diss.	0	mg/L	0.1
R5	C961011	5/7/96	Hardness, (mg/L as CaCO3)	86	mg/L	
R5	C961011	5/7/96	Heptachlor	0	µg/L	0.01
R5	C961011	5/7/96	Heptachlor epoxide	0	µg/L	0.01
R5	C961011	5/7/96	Lead, Diss.	0	mg/L	0.002
R5	C961011	5/7/96	Magnesium Diss.	10	mg/L	1
R5	C961011	5/7/96	Mercury, Diss.	0	mg/L	0.001
R5	C961011	5/7/96	Methoxychlor	0	µg/L	0.01
R5	C961011	5/7/96	Metolachlor	0	µg/L	0.2
R5	C961011	5/7/96	Nickel, Diss.	0	mg/L	0.005
R5	C961011	5/7/96	Oxyfluorfen	0	µg/L	0.2
R5	C961011	5/7/96	PCB-1016	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1221	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1232	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1242	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1248	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1254	0	µg/L	0.1
R5	C961011	5/7/96	PCB-1260	0	µg/L	0.1
R5	C961011	5/7/96	Pentachloronitrobenzene (PCNB)	0	µg/L	0.01
R5	C961011	5/7/96	Potassium, Diss.	1.6	mg/L	0.1
R5	C961011	5/7/96	Selenium, Diss.	0.001	mg/L	0.001
R5	C961011	5/7/96	Silver, Diss.	0	mg/L	0.005
R5	C961011	5/7/96	Simazine	0	µg/L	0.02
R5	C961011	5/7/96	Sodium, Diss.	42	mg/L	1
R5	C961011	5/7/96	Specific Conductance	383	mg/L	
R5	C961011	5/7/96	Sulfate, Diss.	51	mg/L	1
R5	C961011	5/7/96	Suspended Solids	16	mg/L	1
R5	C961011	5/7/96	Thallium	0	mg/L	0.002
R5	C961011	5/7/96	Thiobencarb	0	µg/L	0.02
R5	C961011	5/7/96	Total Dissolved Solids	219	mg/L	1
R5	C961011	5/7/96	Total Sulfide	0	mg/L	0.1
R5	C961011	5/7/96	Toxaphene	0	µg/L	0.2
R5	C961011	5/7/96	Zinc, Diss.	0	mg/L	0.005

Appendix D

Byron Tract Soil Quality Data

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-1	C961018,19,20	4/24/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
C-1	C961018,19,20	4/24/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Chromium	0	0.000	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Copper	0	0.000	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Dissolved Solids	200	400.000	mg/Kg	5
C-1	C961018,19,20	4/24/96	(DIWET) Lead	0.007	0.014	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-1	C961018,19,20	4/24/96	(DIWET) Nickel	0.03	0.060	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-1	C961018,19,20	4/24/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-1	C961018,19,20	4/24/96	(DIWET) Zinc	0.42	0.840	mg/L	0.003
C-1	C961018,19,20	4/24/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	a-BHC	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Acid Potential	14	28.000	CaCO3 ton	
C-1	C961018,19,20	4/24/96	Aldrin	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-1	C961018,19,20	4/24/96	Arsenic	9.9	19.800	mg/Kg	0.4
C-1	C961018,19,20	4/24/96	b-BHC	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Cadmium	0	0.000	mg/Kg	0.5
C-1	C961018,19,20	4/24/96	Chlordane	0	0.000	mg/kg	0.15
C-1	C961018,19,20	4/24/96	Chromium	33	66.000	mg/Kg	1
C-1	C961018,19,20	4/24/96	Copper	29	58.000	mg/Kg	0.4
C-1	C961018,19,20	4/24/96	d-BHC	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Dieldrin	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Endosulfan I	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Endosulfan II	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Endrin	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	g-BHC	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Heptachlor	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Lead	7.3	14.600	mg/Kg	0.1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-1	C961018,19,20	4/24/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-1	C961018,19,20	4/24/96	Methoxychlor	0	0.000	mg/kg	0.005
C-1	C961018,19,20	4/24/96	Moisture, Percent	50	100.000	%	0.01
C-1	C961018,19,20	4/24/96	Neutralization acidity ratio	-0.79	-1.580	CaCO3 ton	
C-1	C961018,19,20	4/24/96	Neutralization Potential	-11	-22.000	CaCO3 ton	-1000
C-1	C961018,19,20	4/24/96	Nickel	37	74.000	mg/Kg	0.1
C-1	C961018,19,20	4/24/96	pH	5.4	10.800	STD	
C-1	C961018,19,20	4/24/96	Selenium	0.4	0.800	mg/Kg	0.4
C-1	C961018,19,20	4/24/96	Silver	0.18	0.360	mg/Kg	0.05
C-1	C961018,19,20	4/24/96	Specific Conductance	350	700.000	µmhos/cm	1
C-1	C961018,19,20	4/24/96	Thallium	0	0.000	mg/Kg	1
C-1	C961018,19,20	4/24/96	Total Oil & Grease	190	380.000	mg/kg	20
C-1	C961018,19,20	4/24/96	Total Organic Carbon, TOC	83000	166000.000	mg/kg	10
C-1	C961018,19,20	4/24/96	Total Volatile Solids	66	132.000	%	0.01
C-1	C961018,19,20	4/24/96	Toxaphene	0	0.000	mg/kg	0.1
C-1	C961018,19,20	4/24/96	Zinc	32	64.000	mg/Kg	0.4
C-10	C960964,65,66	5/3/96	(DIWET) Arsenic	0.025	0.032	mg/L	0.002
C-10	C960964,65,66	5/3/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Chromium	0.011	0.014	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Copper	0.02	0.026	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Dissolved Solids	610	782.051	mg/Kg	5
C-10	C960964,65,66	5/3/96	(DIWET) Lead	0.007	0.009	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-10	C960964,65,66	5/3/96	(DIWET) Nickel	0.006	0.008	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Selenium	0.003	0.004	mg/L	0.002
C-10	C960964,65,66	5/3/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-10	C960964,65,66	5/3/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-10	C960964,65,66	5/3/96	(DIWET) Zinc	0.061	0.078	mg/L	0.003
C-10	C960964,65,66	5/3/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	a-BHC	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Acid Potential	1	1.282	CaCO3 ton	
C-10	C960964,65,66	5/3/96	Aldrin	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-10	C960964,65,66	5/3/96	Arsenic	5.3	6.795	mg/Kg	0.4

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-10	C960964,65,66	5/3/96	b-BHC	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Cadmium	0	0.000	mg/Kg	0.5
C-10	C960964,65,66	5/3/96	Chlordane	0	0.000	mg/kg	0.15
C-10	C960964,65,66	5/3/96	Chromium	32	41.026	mg/Kg	1
C-10	C960964,65,66	5/3/96	Copper	24	30.769	mg/Kg	0.4
C-10	C960964,65,66	5/3/96	d-BHC	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Dieldrin	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Endosulfan I	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Endosulfan II	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Endrin	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	g-BHC	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Heptachlor	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Lead	13	16.667	mg/Kg	0.1
C-10	C960964,65,66	5/3/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-10	C960964,65,66	5/3/96	Methoxychlor	0	0.000	mg/kg	0.005
C-10	C960964,65,66	5/3/96	Moisture, Percent	22	28.205	%	0.01
C-10	C960964,65,66	5/3/96	Neutralization acidity ratio	12	15.385	CaCO3 ton	
C-10	C960964,65,66	5/3/96	Neutralization Potential	12	15.385	CaCO3 ton	-1000
C-10	C960964,65,66	5/3/96	Nickel	33	42.308	mg/Kg	0.1
C-10	C960964,65,66	5/3/96	pH	8.6	11.026	STD	
C-10	C960964,65,66	5/3/96	Selenium	0.4	0.513	mg/Kg	0.4
C-10	C960964,65,66	5/3/96	Silver	3.7	4.744	mg/Kg	0.05
C-10	C960964,65,66	5/3/96	Specific Conductance	790	1012.821	µmhos/cm	1
C-10	C960964,65,66	5/3/96	Thallium	0	0.000	mg/Kg	1
C-10	C960964,65,66	5/3/96	Total Oil & Grease	0	0.000	mg/kg	20
C-10	C960964,65,66	5/3/96	Total Organic Carbon, TOC	29000	37179.487	mg/kg	10
C-10	C960964,65,66	5/3/96	Total Volatile Solids	26	33.333	%	0.01
C-10	C960964,65,66	5/3/96	Toxaphene	0	0.000	mg/kg	0.1
C-10	C960964,65,66	5/3/96	Zinc	58	74.359	mg/Kg	0.4
C-11	C960967,68,69	5/3/96	(DIWET) Arsenic	0.015	0.018	mg/L	0.002
C-11	C960967,68,69	5/3/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Chromium	0.009	0.011	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Copper	0.01	0.012	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Dissolved Solids	620	746.988	mg/Kg	5
C-11	C960967,68,69	5/3/96	(DIWET) Lead	0.01	0.012	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-11	C960967,68,69	5/3/96	(DIWET) Nickel	0.006	0.007	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-11	C960967,68,69	5/3/96	(DIWET) Silver	0	0.000	mg/L	0.002

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-11	C960967,68,69	5/3/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-11	C960967,68,69	5/3/96	(DIWET) Zinc	0.048	0.058	mg/L	0.003
C-11	C960967,68,69	5/3/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	a-BHC	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Acid Potential	1	1.205	CaCO3 ton	
C-11	C960967,68,69	5/3/96	Aldrin	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-11	C960967,68,69	5/3/96	Arsenic	6.2	7.470	mg/Kg	0.4
C-11	C960967,68,69	5/3/96	b-BHC	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Cadmium	0	0.000	mg/Kg	0.5
C-11	C960967,68,69	5/3/96	Chlordane	0	0.000	mg/kg	0.15
C-11	C960967,68,69	5/3/96	Chromium	36	43.373	mg/Kg	1
C-11	C960967,68,69	5/3/96	Copper	27	32.530	mg/Kg	0.4
C-11	C960967,68,69	5/3/96	d-BHC	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Dieldrin	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Endosulfan I	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Endosulfan II	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Endrin	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	g-BHC	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Heptachlor	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Lead	11	13.253	mg/Kg	0.1
C-11	C960967,68,69	5/3/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-11	C960967,68,69	5/3/96	Methoxychlor	0	0.000	mg/kg	0.005
C-11	C960967,68,69	5/3/96	Moisture, Percent	17	20.482	%	0.01
C-11	C960967,68,69	5/3/96	Neutralization acidity ratio	19	22.892	CaCO3 ton	
C-11	C960967,68,69	5/3/96	Neutralization Potential	19	22.892	CaCO3 ton	-1000
C-11	C960967,68,69	5/3/96	Nickel	37	44.578	mg/Kg	0.1
C-11	C960967,68,69	5/3/96	pH	8.9	10.723	STD	
C-11	C960967,68,69	5/3/96	Selenium	0	0.000	mg/Kg	0.4
C-11	C960967,68,69	5/3/96	Silver	0.16	0.193	mg/Kg	0.05
C-11	C960967,68,69	5/3/96	Specific Conductance	940	1132.530	µmhos/cm	1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-11	C960967,68,69	5/3/96	Thallium	0	0.000	mg/Kg	1
C-11	C960967,68,69	5/3/96	Total Oil & Grease	0	0.000	mg/kg	20
C-11	C960967,68,69	5/3/96	Total Organic Carbon, TOC	6000	7228.916	mg/kg	10
C-11	C960967,68,69	5/3/96	Total Volatile Solids	19	22.892	%	0.01
C-11	C960967,68,69	5/3/96	Toxaphene	0	0.000	mg/kg	0.1
C-11	C960967,68,69	5/3/96	Zinc	66	79.518	mg/Kg	0.4
C-12	C960970,71,72	5/6/96	(DIWET) Arsenic	0.017	0.020	mg/L	0.002
C-12	C960970,71,72	5/6/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Chromium	0.009	0.011	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Copper	0.011	0.013	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Dissolved Solids	700	833.333	mg/Kg	5
C-12	C960970,71,72	5/6/96	(DIWET) Lead	0	0.000	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-12	C960970,71,72	5/6/96	(DIWET) Nickel	0	0.000	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-12	C960970,71,72	5/6/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-12	C960970,71,72	5/6/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-12	C960970,71,72	5/6/96	(DIWET) Zinc	0.045	0.054	mg/L	0.003
C-12	C960970,71,72	5/6/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	a-BHC	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Acid Potential	2	2.381	CaCO3 ton	
C-12	C960970,71,72	5/6/96	Aldrin	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-12	C960970,71,72	5/6/96	Arsenic	6.7	7.976	mg/Kg	0.4
C-12	C960970,71,72	5/6/96	b-BHC	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Cadmium	0	0.000	mg/Kg	0.5
C-12	C960970,71,72	5/6/96	Chlordane	0	0.000	mg/kg	0.15
C-12	C960970,71,72	5/6/96	Chromium	43	51.190	mg/Kg	1
C-12	C960970,71,72	5/6/96	Copper	31	36.905	mg/Kg	0.4
C-12	C960970,71,72	5/6/96	d-BHC	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Dieldrin	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Endosulfan I	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Endosulfan II	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-12	C960970,71,72	5/6/96	Endrin	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	g-BHC	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Heptachlor	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Lead	9.4	11.190	mg/Kg	0.1
C-12	C960970,71,72	5/6/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-12	C960970,71,72	5/6/96	Methoxychlor	0	0.000	mg/kg	0.005
C-12	C960970,71,72	5/6/96	Moisture, Percent	16	19.048	%	0.01
C-12	C960970,71,72	5/6/96	Neutralization acidity ratio	13.5	16.071	CaCO3 ton	
C-12	C960970,71,72	5/6/96	Neutralization Potential	27	32.143	CaCO3 ton	-1000
C-12	C960970,71,72	5/6/96	Nickel	41	48.810	mg/Kg	0.1
C-12	C960970,71,72	5/6/96	pH	9	10.714	STD	
C-12	C960970,71,72	5/6/96	Selenium	0	0.000	mg/Kg	0.4
C-12	C960970,71,72	5/6/96	Silver	0.12	0.143	mg/Kg	0.05
C-12	C960970,71,72	5/6/96	Specific Conductance	1000	1190.476	µmhos/cm	1
C-12	C960970,71,72	5/6/96	Thallium	0	0.000	mg/Kg	1
C-12	C960970,71,72	5/6/96	Total Oil & Grease	0	0.000	mg/kg	20
C-12	C960970,71,72	5/6/96	Total Organic Carbon, TOC	1800	2142.857	mg/kg	10
C-12	C960970,71,72	5/6/96	Total Volatile Solids	19	22.619	%	0.01
C-12	C960970,71,72	5/6/96	Toxaphene	0	0.000	mg/kg	0.1
C-12	C960970,71,72	5/6/96	Zinc	80	95.238	mg/Kg	0.4
C-13	C960973,74,75	5/6/96	(DIWET) Arsenic	0.007	0.008	mg/L	0.002
C-13	C960973,74,75	5/6/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Chromium	0.008	0.009	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Copper	0.008	0.009	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Dissolved Solids	440	500.000	mg/Kg	5
C-13	C960973,74,75	5/6/96	(DIWET) Lead	0.005	0.006	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-13	C960973,74,75	5/6/96	(DIWET) Nickel	0	0.000	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-13	C960973,74,75	5/6/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-13	C960973,74,75	5/6/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-13	C960973,74,75	5/6/96	(DIWET) Zinc	0.046	0.052	mg/L	0.003
C-13	C960973,74,75	5/6/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	a-BHC	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Acid Potential	1	1.136	CaCO3 ton	
C-13	C960973,74,75	5/6/96	Aldrin	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arochlor 1221	0	0.000	mg/kg	0.2

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-13	C960973,74,75	5/6/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-13	C960973,74,75	5/6/96	Arsenic	5.5	6.250	mg/Kg	0.4
C-13	C960973,74,75	5/6/96	b-BHC	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Cadmium	0	0.000	mg/Kg	0.5
C-13	C960973,74,75	5/6/96	Chlordane	0	0.000	mg/kg	0.15
C-13	C960973,74,75	5/6/96	Chromium	33	37.500	mg/Kg	1
C-13	C960973,74,75	5/6/96	Copper	23	26.136	mg/Kg	0.4
C-13	C960973,74,75	5/6/96	d-BHC	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Dieldrin	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Endosulfan I	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Endosulfan II	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Endrin	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	g-BHC	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Heptachlor	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Lead	9.4	10.682	mg/Kg	0.1
C-13	C960973,74,75	5/6/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-13	C960973,74,75	5/6/96	Methoxychlor	0	0.000	mg/kg	0.005
C-13	C960973,74,75	5/6/96	Moisture, Percent	12	13.636	%	0.01
C-13	C960973,74,75	5/6/96	Neutralization acidity ratio	7	7.955	CaCO3 ton	
C-13	C960973,74,75	5/6/96	Neutralization Potential	7	7.955	CaCO3 ton	-1000
C-13	C960973,74,75	5/6/96	Nickel	33	37.500	mg/Kg	0.1
C-13	C960973,74,75	5/6/96	pH	7.9	8.977	STD	
C-13	C960973,74,75	5/6/96	Selenium	0	0.000	mg/Kg	0.4
C-13	C960973,74,75	5/6/96	Silver	0.12	0.136	mg/Kg	0.05
C-13	C960973,74,75	5/6/96	Specific Conductance	590	670.455	µmhos/cm	1
C-13	C960973,74,75	5/6/96	Thallium	0	0.000	mg/Kg	1
C-13	C960973,74,75	5/6/96	Total Oil & Grease	0	0.000	mg/kg	20
C-13	C960973,74,75	5/6/96	Total Organic Carbon, TOC	3400	3863.636	mg/kg	10
C-13	C960973,74,75	5/6/96	Total Volatile Solids	14	15.909	%	0.01
C-13	C960973,74,75	5/6/96	Toxaphene	0	0.000	mg/kg	0.1
C-13	C960973,74,75	5/6/96	Zinc	53	60.227	mg/Kg	0.4
C-14	C960976,77,78	5/6/96	(DIWET) Arsenic	0.014	0.016	mg/L	0.002
C-14	C960976,77,78	5/6/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-14	C960976,77,78	5/6/96	(DIWET) Chromium	0.012	0.014	mg/L	0.005
C-14	C960976,77,78	5/6/96	(DIWET) Copper	0.009	0.010	mg/L	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-14	C960976,77,78	5/6/96	(DIWET) Dissolved Solids	490	569.767	mg/Kg	5
C-14	C960976,77,78	5/6/96	(DIWET) Lead	0.007	0.008	mg/L	0.005
C-14	C960976,77,78	5/6/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-14	C960976,77,78	5/6/96	(DIWET) Nickel	0	0.000	mg/L	0.005
C-14	C960976,77,78	5/6/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-14	C960976,77,78	5/6/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-14	C960976,77,78	5/6/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-14	C960976,77,78	5/6/96	(DIWET) Zinc	0.04	0.047	mg/L	0.003
C-14	C960976,77,78	5/6/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	a-BHC	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Acid Potential	1	1.163	CaCO3 ton	
C-14	C960976,77,78	5/6/96	Aldrin	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-14	C960976,77,78	5/6/96	Arsenic	6.8	7.907	mg/Kg	0.4
C-14	C960976,77,78	5/6/96	b-BHC	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Cadmium	0	0.000	mg/Kg	0.5
C-14	C960976,77,78	5/6/96	Chlordane	0	0.000	mg/kg	0.15
C-14	C960976,77,78	5/6/96	Chromium	30	34.884	mg/Kg	1
C-14	C960976,77,78	5/6/96	Copper	26	30.233	mg/Kg	0.4
C-14	C960976,77,78	5/6/96	d-BHC	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Dieldrin	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Endosulfan I	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Endosulfan II	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Endrin	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	g-BHC	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Heptachlor	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Lead	13	15.116	mg/Kg	0.1
C-14	C960976,77,78	5/6/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-14	C960976,77,78	5/6/96	Methoxychlor	0	0.000	mg/kg	0.005
C-14	C960976,77,78	5/6/96	Moisture, Percent	14	16.279	%	0.01
C-14	C960976,77,78	5/6/96	Neutralization acidity ratio	27	31.395	CaCO3 ton	

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-14	C960976,77,78	5/6/96	Neutralization Potential	27	31.395	CaCO3 ton	-1000
C-14	C960976,77,78	5/6/96	Nickel	37	43.023	mg/Kg	0.1
C-14	C960976,77,78	5/6/96	pH	9.1	10.581	STD	
C-14	C960976,77,78	5/6/96	Selenium	0.5	0.581	mg/Kg	0.4
C-14	C960976,77,78	5/6/96	Silver	0.12	0.140	mg/Kg	0.05
C-14	C960976,77,78	5/6/96	Specific Conductance	460	534.884	µmhos/cm	1
C-14	C960976,77,78	5/6/96	Thallium	0	0.000	mg/Kg	1
C-14	C960976,77,78	5/6/96	Total Oil & Grease	0	0.000	mg/kg	20
C-14	C960976,77,78	5/6/96	Total Organic Carbon, TOC	2300	2674.419	mg/kg	10
C-14	C960976,77,78	5/6/96	Total Volatile Solids	16	18.605	%	0.01
C-14	C960976,77,78	5/6/96	Toxaphene	0	0.000	mg/kg	0.1
C-14	C960976,77,78	5/6/96	Zinc	68	79.070	mg/Kg	0.4
C-15	C960979,80,81	5/9/96	(DIWET) Arsenic	0.005	0.006	mg/L	0.002
C-15	C960979,80,81	5/9/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Chromium	0.021	0.024	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Copper	0.008	0.009	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Dissolved Solids	400	454.545	mg/L	5
C-15	C960979,80,81	5/9/96	(DIWET) Lead	0.005	0.006	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-15	C960979,80,81	5/9/96	(DIWET) Nickel	0	0.000	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-15	C960979,80,81	5/9/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-15	C960979,80,81	5/9/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-15	C960979,80,81	5/9/96	(DIWET) Zinc	0.052	0.059	mg/L	0.003
C-15	C960979,80,81	5/9/96	Acid Potential	1	1.136	CaCO3 ton	
C-15	C960979,80,81	5/9/96	Arsenic	5.2	5.909	mg/Kg	0.4
C-15	C960979,80,81	5/9/96	Cadmium	0	0.000	mg/Kg	0.5
C-15	C960979,80,81	5/9/96	Chromium	35	39.773	mg/Kg	1
C-15	C960979,80,81	5/9/96	Copper	25	28.409	mg/Kg	0.4
C-15	C960979,80,81	5/9/96	Lead	9.1	10.341	mg/Kg	0.1
C-15	C960979,80,81	5/9/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-15	C960979,80,81	5/9/96	Moisture, Percent	12	13.636	%	0.01
C-15	C960979,80,81	5/9/96	Neutralization acidity ratio	8	9.091	CaCO3 ton	
C-15	C960979,80,81	5/9/96	Neutralization Potential	8	9.091	CaCO3 ton	-1000
C-15	C960979,80,81	5/9/96	Nickel	35	39.773	mg/Kg	0.1
C-15	C960979,80,81	5/9/96	pH	8.1	9.205	STD	
C-15	C960979,80,81	5/9/96	Selenium	0	0.000	mg/Kg	0.4
C-15	C960979,80,81	5/9/96	Silver	0.13	0.148	mg/Kg	0.05
C-15	C960979,80,81	5/9/96	Specific Conductance	530	602.273	µmhos/cm	1
C-15	C960979,80,81	5/9/96	Thallium	0	0.000	mg/Kg	1
C-15	C960979,80,81	5/9/96	Total Oil & Grease	170	193.182	mg/kg	50
C-15	C960979,80,81	5/9/96	Total Organic Carbon, TOC	3800	4318.182	mg/Kg	10

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-15	C960979,80,81	5/9/96	Total Volatile Solids	14	15.909	%	0.01
C-15	C960979,80,81	5/9/96	Zinc	55	62.500	mg/Kg	0.4
C-15	C961444,45,46	6/6/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	4,4'-DDT	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	a-BHC	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1248	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-15	C961444,45,46	6/6/96	b-BHC	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Chlordane	0	0.000	mg/Kg	0.15
C-15	C961444,45,46	6/6/96	d-BHC	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Dieldrin	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Endrin	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	g-BHC	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Heptachlor	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-15	C961444,45,46	6/6/96	Toxaphene	0	0.000	mg/Kg	0.1
C-16	C960982,83,85	5/8/96	(DIWET) Arsenic	0.011	0.013	mg/L	0.002
C-16	C960982,83,85	5/8/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Chromium	0.009	0.011	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Copper	0.01	0.012	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Dissolved Solids	630	741.176	mg/L	5
C-16	C960982,83,85	5/8/96	(DIWET) Lead	0.006	0.007	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-16	C960982,83,85	5/8/96	(DIWET) Nickel	0.006	0.007	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-16	C960982,83,85	5/8/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-16	C960982,83,85	5/8/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-16	C960982,83,85	5/8/96	(DIWET) Zinc	0.052	0.061	mg/L	0.003
C-16	C960982,83,85	5/8/96	Acid Potential	1	1.176	CaCO3 ton	
C-16	C960982,83,85	5/8/96	Arsenic	6.2	7.294	mg/Kg	0.4
C-16	C960982,83,85	5/8/96	Cadmium	0	0.000	mg/Kg	0.5

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-16	C960982,83,85	5/8/96	Chromium	36	42.353	mg/Kg	1
C-16	C960982,83,85	5/8/96	Copper	25	29.412	mg/Kg	0.4
C-16	C960982,83,85	5/8/96	Lead	8.5	10.000	mg/Kg	0.1
C-16	C960982,83,85	5/8/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-16	C960982,83,85	5/8/96	Moisture, Percent	15	17.647	%	0.01
C-16	C960982,83,85	5/8/96	Neutralization acidity ratio	9	10.588	CaCO3 ton	
C-16	C960982,83,85	5/8/96	Neutralization Potential	9	10.588	CaCO3 ton	-1000
C-16	C960982,83,85	5/8/96	Nickel	35	41.176	mg/Kg	0.1
C-16	C960982,83,85	5/8/96	pH	8.5	10.000	STD	
C-16	C960982,83,85	5/8/96	Selenium	0.5	0.588	mg/Kg	0.4
C-16	C960982,83,85	5/8/96	Silver	0.1	0.118	mg/Kg	0.05
C-16	C960982,83,85	5/8/96	Specific Conductance	910	1070.588	µmhos/cm	1
C-16	C960982,83,85	5/8/96	Thallium	0	0.000	mg/Kg	1
C-16	C960982,83,85	5/8/96	Total Oil & Grease	0	0.000	mg/kg	50
C-16	C960982,83,85	5/8/96	Total Organic Carbon, TOC	3100	3647.059	mg/kg	10
C-16	C960982,83,85	5/8/96	Total Volatile Solids	17	20.000	%	0.01
C-16	C960982,83,85	5/8/96	Zinc	61	71.765	mg/Kg	0.4
C-16	C961447,48,50	6/6/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	4,4'-DDT	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	a-BHC	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1248	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-16	C961447,48,50	6/6/96	b-BHC	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Chlordane	0	0.000	mg/Kg	0.15
C-16	C961447,48,50	6/6/96	d-BHC	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Dieldrin	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Endrin	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	g-BHC	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Heptachlor	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-16	C961447,48,50	6/6/96	Toxaphene	0	0.000	mg/Kg	0.1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-17	C960986,87,88	5/8/96	(DIWET) Arsenic	0.007	0.008	mg/L	0.002
C-17	C960986,87,88	5/8/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Chromium	0.018	0.021	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Copper	0.014	0.016	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Dissolved Solids	940	1105.882	mg/L	5
C-17	C960986,87,88	5/8/96	(DIWET) Lead	0.011	0.013	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-17	C960986,87,88	5/8/96	(DIWET) Nickel	0.015	0.018	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-17	C960986,87,88	5/8/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-17	C960986,87,88	5/8/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-17	C960986,87,88	5/8/96	(DIWET) Zinc	0.1	0.118	mg/L	0.003
C-17	C960986,87,88	5/8/96	Acid Potential	1	1.176	CaCO3 ton	
C-17	C960986,87,88	5/8/96	Arsenic	8.9	10.471	mg/Kg	0.4
C-17	C960986,87,88	5/8/96	Cadmium	0	0.000	mg/Kg	0.5
C-17	C960986,87,88	5/8/96	Chromium	38	44.706	mg/Kg	1
C-17	C960986,87,88	5/8/96	Copper	28	32.941	mg/Kg	0.4
C-17	C960986,87,88	5/8/96	Lead	10	11.765	mg/Kg	0.1
C-17	C960986,87,88	5/8/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-17	C960986,87,88	5/8/96	Moisture, Percent	15	17.647	%	0.01
C-17	C960986,87,88	5/8/96	Neutralization acidity ratio	10	11.765	CaCO3 ton	
C-17	C960986,87,88	5/8/96	Neutralization Potential	10	11.765	CaCO3 ton	-1000
C-17	C960986,87,88	5/8/96	Nickel	41	48.235	mg/Kg	0.1
C-17	C960986,87,88	5/8/96	pH	8.5	10.000	STD	
C-17	C960986,87,88	5/8/96	Selenium	0.4	0.471	mg/Kg	0.4
C-17	C960986,87,88	5/8/96	Silver	0.3	0.353	mg/Kg	0.05
C-17	C960986,87,88	5/8/96	Specific Conductance	550	647.059	µmhos/cm	1
C-17	C960986,87,88	5/8/96	Thallium	0	0.000	mg/Kg	1
C-17	C960986,87,88	5/8/96	Total Oil & Grease	0	0.000	mg/kg	50
C-17	C960986,87,88	5/8/96	Total Organic Carbon, TOC	4600	5411.765	mg/kg	10
C-17	C960986,87,88	5/8/96	Total Volatile Solids	17	20.000	%	0.01
C-17	C960986,87,88	5/8/96	Zinc	62	72.941	mg/Kg	0.4
C-17	C961451,52,53	6/6/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	4,4'-DDT	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	a-BHC	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Aldrin	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	Arochlor 1248	0	0.000	mg/Kg	0.2

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-17	C961451,52,53	6/6/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-17	C961451,52,53	6/6/96	b-BHC	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Chlordane	0	0.000	mg/Kg	0.15
C-17	C961451,52,53	6/6/96	d-BHC	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Dieldrin	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Endrin	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	g-BHC	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Heptachlor	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-17	C961451,52,53	6/6/96	Toxaphene	0	0.000	mg/Kg	0.1
C-18	C960989,90,91	5/8/96	(DIWET) Arsenic	0.003	0.003	mg/L	0.002
C-18	C960989,90,91	5/8/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Chromium	0.014	0.016	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Copper	0.014	0.016	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Dissolved Solids	1000	1111.111	mg/L	5
C-18	C960989,90,91	5/8/96	(DIWET) Lead	0.008	0.009	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-18	C960989,90,91	5/8/96	(DIWET) Nickel	0.009	0.010	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-18	C960989,90,91	5/8/96	(DIWET) Silver	0	0.000	mg/L	0.002
C-18	C960989,90,91	5/8/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-18	C960989,90,91	5/8/96	(DIWET) Zinc	0.083	0.092	mg/L	0.003
C-18	C960989,90,91	5/8/96	Acid Potential	1	1.111	CaCO3 ton	
C-18	C960989,90,91	5/8/96	Arsenic	7.2	8.000	mg/Kg	0.4
C-18	C960989,90,91	5/8/96	Cadmium	0	0.000	mg/Kg	0.5
C-18	C960989,90,91	5/8/96	Chromium	39	43.333	mg/Kg	1
C-18	C960989,90,91	5/8/96	Copper	30	33.333	mg/Kg	0.4
C-18	C960989,90,91	5/8/96	Lead	11	12.222	mg/Kg	0.1
C-18	C960989,90,91	5/8/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-18	C960989,90,91	5/8/96	Moisture, Percent	10	11.111	%	0.01
C-18	C960989,90,91	5/8/96	Neutralization acidity ratio	10	11.111	CaCO3 ton	
C-18	C960989,90,91	5/8/96	Neutralization Potential	10	11.111	CaCO3 ton	-1000
C-18	C960989,90,91	5/8/96	Nickel	40	44.444	mg/Kg	0.1
C-18	C960989,90,91	5/8/96	pH	8.2	9.111	STD	
C-18	C960989,90,91	5/8/96	Selenium	0.5	0.556	mg/Kg	0.4
C-18	C960989,90,91	5/8/96	Silver	0.29	0.322	mg/Kg	0.05

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-18	C960989,90,91	5/8/96	Specific Conductance	330	366.667	µmhos/cm	1
C-18	C960989,90,91	5/8/96	Thallium	0	0.000	mg/Kg	1
C-18	C960989,90,91	5/8/96	Total Oil & Grease	85	94.444	mg/kg	50
C-18	C960989,90,91	5/8/96	Total Organic Carbon, TOC	5500	6111.111	mg/kg	10
C-18	C960989,90,91	5/8/96	Total Volatile Solids	13	14.444	%	0.01
C-18	C960989,90,91	5/8/96	Zinc	65	72.222	mg/Kg	0.4
C-18	C961454,55,56	6/6/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	4,4'-DDT	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	a-BHC	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Aldrin	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1248	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-18	C961454,55,56	6/6/96	b-BHC	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Chlordane	0	0.000	mg/Kg	0.15
C-18	C961454,55,56	6/6/96	d-BHC	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Dieldrin	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Endrin	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	g-BHC	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Heptachlor	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-18	C961454,55,56	6/6/96	Toxaphene	0	0.000	mg/Kg	0.1
C-2	C961021,22,23	4/24/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
C-2	C961021,22,23	4/24/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Chromium	0.006	0.013	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Copper	0	0.000	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Dissolved Solids	190	395.833	mg/Kg	5
C-2	C961021,22,23	4/24/96	(DIWET) Lead	0.007	0.015	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-2	C961021,22,23	4/24/96	(DIWET) Nickel	0.013	0.027	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-2	C961021,22,23	4/24/96	(DIWET) Silver	0	0.000	mg/L	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-2	C961021,22,23	4/24/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-2	C961021,22,23	4/24/96	(DIWET) Zinc	0.37	0.771	mg/L	0.003
C-2	C961021,22,23	4/24/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	a-BHC	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Acid Potential	14	29.167	CaCO3 ton	
C-2	C961021,22,23	4/24/96	Aldrin	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-2	C961021,22,23	4/24/96	Arsenic	11	22.917	mg/Kg	0.4
C-2	C961021,22,23	4/24/96	b-BHC	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Cadmium	0	0.000	mg/Kg	0.5
C-2	C961021,22,23	4/24/96	Chlordane	0	0.000	mg/kg	0.15
C-2	C961021,22,23	4/24/96	Chromium	29	60.417	mg/Kg	1
C-2	C961021,22,23	4/24/96	Copper	33	68.750	mg/Kg	0.4
C-2	C961021,22,23	4/24/96	d-BHC	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Dieldrin	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Endosulfan I	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Endosulfan II	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Endrin	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	g-BHC	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Heptachlor	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Lead	12	25.000	mg/Kg	0.1
C-2	C961021,22,23	4/24/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-2	C961021,22,23	4/24/96	Methoxychlor	0	0.000	mg/kg	0.005
C-2	C961021,22,23	4/24/96	Moisture, Percent	52	108.333	%	0.01
C-2	C961021,22,23	4/24/96	Neutralization acidity ratio	-0.36	-0.750	CaCO3 ton	
C-2	C961021,22,23	4/24/96	Neutralization Potential	-5	-10.417	CaCO3 ton	-1000
C-2	C961021,22,23	4/24/96	Nickel	35	72.917	mg/Kg	0.1
C-2	C961021,22,23	4/24/96	pH	5.9	12.292	STD	
C-2	C961021,22,23	4/24/96	Selenium	0	0.000	mg/Kg	0.4
C-2	C961021,22,23	4/24/96	Silver	0.25	0.521	mg/Kg	0.05
C-2	C961021,22,23	4/24/96	Specific Conductance	280	583.333	µmhos/cm	1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-2	C961021,22,23	4/24/96	Thallium	0	0.000	mg/Kg	1
C-2	C961021,22,23	4/24/96	Total Oil & Grease	90	187.500	mg/kg	20
C-2	C961021,22,23	4/24/96	Total Organic Carbon, TOC	76000	158333.333	mg/kg	10
C-2	C961021,22,23	4/24/96	Total Volatile Solids	68	141.667	%	0.01
C-2	C961021,22,23	4/24/96	Toxaphene	0	0.000	mg/kg	0.1
C-2	C961021,22,23	4/24/96	Zinc	35	72.917	mg/Kg	0.4
C-3	C961024,25,26	4/24/96	(DIWET) Arsenic	0.002	0.003	mg/L	0.002
C-3	C961024,25,26	4/24/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Chromium	0.011	0.019	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Copper	0.007	0.012	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Dissolved Solids	120	206.897	mg/Kg	5
C-3	C961024,25,26	4/24/96	(DIWET) Lead	0.005	0.009	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-3	C961024,25,26	4/24/96	(DIWET) Nickel	0.013	0.022	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-3	C961024,25,26	4/24/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-3	C961024,25,26	4/24/96	(DIWET) Zinc	0.35	0.603	mg/L	0.003
C-3	C961024,25,26	4/24/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	a-BHC	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Acid Potential	8	13.793	CaCO3 ton	
C-3	C961024,25,26	4/24/96	Aldrin	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-3	C961024,25,26	4/24/96	Arsenic	8.4	14.483	mg/Kg	0.4
C-3	C961024,25,26	4/24/96	b-BHC	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Cadmium	0	0.000	mg/Kg	0.5
C-3	C961024,25,26	4/24/96	Chlordane	0	0.000	mg/kg	0.15
C-3	C961024,25,26	4/24/96	Chromium	34	58.621	mg/Kg	1
C-3	C961024,25,26	4/24/96	Copper	30	51.724	mg/Kg	0.4
C-3	C961024,25,26	4/24/96	d-BHC	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Dieldrin	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Endosulfan I	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Endosulfan II	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-3	C961024,25,26	4/24/96	Endrin	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	g-BHC	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Heptachlor	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Lead	7.7	13.276	mg/Kg	0.1
C-3	C961024,25,26	4/24/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-3	C961024,25,26	4/24/96	Methoxychlor	0	0.000	mg/kg	0.005
C-3	C961024,25,26	4/24/96	Moisture, Percent	42	72.414	%	0.01
C-3	C961024,25,26	4/24/96	Neutralization acidity ratio	0.13	0.224	CaCO3 ton	
C-3	C961024,25,26	4/24/96	Neutralization Potential	1	1.724	CaCO3 ton	-1000
C-3	C961024,25,26	4/24/96	Nickel	39	67.241	mg/Kg	0.1
C-3	C961024,25,26	4/24/96	pH	6.2	10.690	STD	
C-3	C961024,25,26	4/24/96	Selenium	0.5	0.862	mg/Kg	0.4
C-3	C961024,25,26	4/24/96	Silver	0	0.000	mg/Kg	0.05
C-3	C961024,25,26	4/24/96	Specific Conductance	160	275.862	µmhos/cm	1
C-3	C961024,25,26	4/24/96	Thallium	0	0.000	mg/Kg	1
C-3	C961024,25,26	4/24/96	Total Oil & Grease	270	465.517	mg/kg	20
C-3	C961024,25,26	4/24/96	Total Organic Carbon, TOC	170000	293103.448	mg/kg	10
C-3	C961024,25,26	4/24/96	Total Volatile Solids	56	96.552	%	0.01
C-3	C961024,25,26	4/24/96	Toxaphene	0	0.000	mg/kg	0.1
C-3	C961024,25,26	4/24/96	Zinc	34	58.621	mg/Kg	0.4
C-4	C961027,28,29	4/30/96	(DIWET) Arsenic	0.005	0.007	mg/L	0.002
C-4	C961027,28,29	4/30/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Chromium	0.013	0.019	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Copper	0.01	0.015	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Dissolved Solids	200	294.118	mg/Kg	5
C-4	C961027,28,29	4/30/96	(DIWET) Lead	0.007	0.010	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-4	C961027,28,29	4/30/96	(DIWET) Nickel	0.017	0.025	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-4	C961027,28,29	4/30/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-4	C961027,28,29	4/30/96	(DIWET) Zinc	0.42	0.618	mg/L	0.003
C-4	C961027,28,29	4/30/96	Acid Potential	9	13.235	CaCO3 ton	
C-4	C961027,28,29	4/30/96	Arsenic	13	19.118	mg/Kg	0.4
C-4	C961027,28,29	4/30/96	Cadmium	0	0.000	mg/Kg	0.5
C-4	C961027,28,29	4/30/96	Chromium	51	75.000	mg/Kg	1
C-4	C961027,28,29	4/30/96	Copper	39	57.353	mg/Kg	0.4
C-4	C961027,28,29	4/30/96	Lead	9	13.235	mg/Kg	0.1
C-4	C961027,28,29	4/30/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-4	C961027,28,29	4/30/96	Moisture, Percent	32	47.059	%	0.01

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-4	C961027,28,29	4/30/96	Neutralization acidity ratio	0.11	0.162	CaCO3 ton	
C-4	C961027,28,29	4/30/96	Neutralization Potential	1	1.471	CaCO3 ton	-1000
C-4	C961027,28,29	4/30/96	Nickel	48	70.588	mg/Kg	0.1
C-4	C961027,28,29	4/30/96	pH	6.1	8.971	STD	
C-4	C961027,28,29	4/30/96	Selenium	0	0.000	mg/Kg	0.4
C-4	C961027,28,29	4/30/96	Silver	0.71	1.044	mg/Kg	0.05
C-4	C961027,28,29	4/30/96	Specific Conductance	290	426.471	µmhos/cm	1
C-4	C961027,28,29	4/30/96	Thallium	0	0.000	mg/Kg	1
C-4	C961027,28,29	4/30/96	Total Oil & Grease	100	147.059	mg/kg	20
C-4	C961027,28,29	4/30/96	Total Organic Carbon, TOC	21000	30882.353	mg/kg	10
C-4	C961027,28,29	4/30/96	Total Volatile Solids	53	77.941	%	0.01
C-4	C961027,28,29	4/30/96	Zinc	52	76.471	mg/Kg	0.4
C-4	C961496,97,98	6/7/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	4,4'-DDT	0.008	0.012	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	a-BHC	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Aldrin	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1248	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-4	C961496,97,98	6/7/96	b-BHC	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Chlordane	0	0.000	mg/Kg	0.15
C-4	C961496,97,98	6/7/96	d-BHC	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Dieldrin	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Endrin	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	g-BHC	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Heptachlor	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-4	C961496,97,98	6/7/96	Toxaphene	0	0.000	mg/Kg	0.1
C-5	C961030,31,32	4/30/96	(DIWET) Arsenic	0.002	0.003	mg/L	0.002
C-5	C961030,31,32	4/30/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Chromium	0.005	0.007	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Copper	0	0.000	mg/L	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-5	C961030,31,32	4/30/96	(DIWET) Dissolved Solids	690	1000.000	mg/Kg	5
C-5	C961030,31,32	4/30/96	(DIWET) Lead	0	0.000	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-5	C961030,31,32	4/30/96	(DIWET) Nickel	0.021	0.030	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-5	C961030,31,32	4/30/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-5	C961030,31,32	4/30/96	(DIWET) Zinc	0.071	0.103	mg/L	0.003
C-5	C961030,31,32	4/30/96	Acid Potential	9	13.043	CaCO3 ton	
C-5	C961030,31,32	4/30/96	Arsenic	12	17.391	mg/Kg	0.4
C-5	C961030,31,32	4/30/96	Cadmium	0	0.000	mg/Kg	0.5
C-5	C961030,31,32	4/30/96	Chromium	58	84.058	mg/Kg	1
C-5	C961030,31,32	4/30/96	Copper	42	60.870	mg/Kg	0.4
C-5	C961030,31,32	4/30/96	Lead	110	159.420	mg/Kg	0.1
C-5	C961030,31,32	4/30/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-5	C961030,31,32	4/30/96	Moisture, Percent	31	44.928	%	0.01
C-5	C961030,31,32	4/30/96	Neutralization acidity ratio	0.22	0.319	CaCO3 ton	
C-5	C961030,31,32	4/30/96	Neutralization Potential	2	2.899	CaCO3 ton	-1000
C-5	C961030,31,32	4/30/96	Nickel	51	73.913	mg/Kg	0.1
C-5	C961030,31,32	4/30/96	pH	6	8.696	STD	
C-5	C961030,31,32	4/30/96	Selenium	0	0.000	mg/Kg	0.4
C-5	C961030,31,32	4/30/96	Silver	0.3	0.435	mg/Kg	0.05
C-5	C961030,31,32	4/30/96	Specific Conductance	980	1420.290	µmhos/cm	1
C-5	C961030,31,32	4/30/96	Thallium	0	0.000	mg/Kg	1
C-5	C961030,31,32	4/30/96	Total Oil & Grease	200	289.855	mg/kg	20
C-5	C961030,31,32	4/30/96	Total Organic Carbon, TOC	120000	173913.043	mg/kg	10
C-5	C961030,31,32	4/30/96	Total Volatile Solids	44	63.768	%	0.01
C-5	C961030,31,32	4/30/96	Zinc	64	92.754	mg/Kg	0.4
C-5	C961499,500,01	6/7/96	4,4'-DDD	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	4,4'-DDE	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	4,4'-DDT	0.01	0.014	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	a-BHC	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Aldrin	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Arochlor 1016	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1221	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1232	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1242	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1248	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1254	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	Arochlor 1260	0	0.000	mg/Kg	0.2
C-5	C961499,500,01	6/7/96	b-BHC	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Chlordane	0	0.000	mg/Kg	0.15

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-5	C961499,500,01	6/7/96	d-BHC	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Dieldrin	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Endosulfan I	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Endosulfan II	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Endosulfan Sulfate	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Endrin	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Endrin Aldehyde	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	g-BHC	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Heptachlor	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Heptachlor Epoxide	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Methoxychlor	0	0.000	mg/Kg	0.005
C-5	C961499,500,01	6/7/96	Toxaphene	0	0.000	mg/Kg	0.1
C-6	C961033,34,35,36	4/25/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
C-6	C961033,34,35,36	4/25/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Chromium	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Copper	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Dissolved Solids	450	681.818	mg/Kg	5
C-6	C961033,34,35,36	4/25/96	(DIWET) Lead	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-6	C961033,34,35,36	4/25/96	(DIWET) Nickel	0.009	0.014	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-6	C961033,34,35,36	4/25/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-6	C961033,34,35,36	4/25/96	(DIWET) Zinc	0.15	0.227	mg/L	0.003
C-6	C961033,34,35,36	4/25/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	a-BHC	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Acid Potential	13	19.697	CaCO3 ton	
C-6	C961033,34,35,36	4/25/96	Aldrin	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-6	C961033,34,35,36	4/25/96	Arsenic	10	15.152	mg/Kg	0.4
C-6	C961033,34,35,36	4/25/96	b-BHC	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Cadmium	0	0.000	mg/Kg	0.5
C-6	C961033,34,35,36	4/25/96	Chlordane	0	0.000	mg/kg	0.15
C-6	C961033,34,35,36	4/25/96	Chromium	44	66.667	mg/Kg	1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-6	C961033,34,35,36	4/25/96	Copper	36	54.545	mg/Kg	0.4
C-6	C961033,34,35,36	4/25/96	d-BHC	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Dieldrin	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Endosulfan I	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Endosulfan II	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Endrin	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	g-BHC	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Heptachlor	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Lead	16	24.242	mg/Kg	0.1
C-6	C961033,34,35,36	4/25/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-6	C961033,34,35,36	4/25/96	Methoxychlor	0	0.000	mg/kg	0.005
C-6	C961033,34,35,36	4/25/96	Moisture, Percent	34	51.515	%	0.01
C-6	C961033,34,35,36	4/25/96	Neutralization acidity ratio	0.46	0.697	CaCO3 ton	
C-6	C961033,34,35,36	4/25/96	Neutralization Potential	6	9.091	CaCO3 ton	-1000
C-6	C961033,34,35,36	4/25/96	Nickel	53	80.303	mg/Kg	0.1
C-6	C961033,34,35,36	4/25/96	pH	6.1	9.242	STD	
C-6	C961033,34,35,36	4/25/96	Selenium	1.3	1.970	mg/Kg	0.4
C-6	C961033,34,35,36	4/25/96	Silver	0	0.000	mg/Kg	0.05
C-6	C961033,34,35,36	4/25/96	Specific Conductance	720	1090.909	µmhos/cm	1
C-6	C961033,34,35,36	4/25/96	Thallium	0	0.000	mg/Kg	1
C-6	C961033,34,35,36	4/25/96	Total Oil & Grease	66	100.000	mg/kg	20
C-6	C961033,34,35,36	4/25/96	Total Organic Carbon, TOC	190000	287878.788	mg/kg	10
C-6	C961033,34,35,36	4/25/96	Total Volatile Solids	50	75.758	%	0.01
C-6	C961033,34,35,36	4/25/96	Toxaphene	0	0.000	mg/kg	0.1
C-6	C961033,34,35,36	4/25/96	Zinc	46	69.697	mg/Kg	0.4
C-7	C961037,38,39	4/25/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
C-7	C961037,38,39	4/25/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Chromium	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Copper	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Dissolved Solids	210	368.421	mg/Kg	5
C-7	C961037,38,39	4/25/96	(DIWET) Lead	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-7	C961037,38,39	4/25/96	(DIWET) Nickel	0.008	0.014	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-7	C961037,38,39	4/25/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-7	C961037,38,39	4/25/96	(DIWET) Zinc	0.27	0.474	mg/L	0.003
C-7	C961037,38,39	4/25/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	4,4'-DDE	0	0.000	mg/kg	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-7	C961037,38,39	4/25/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	a-BHC	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Acid Potential	13	22.807	CaCO3 ton	
C-7	C961037,38,39	4/25/96	Aldrin	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-7	C961037,38,39	4/25/96	Arsenic	16	28.070	mg/Kg	0.4
C-7	C961037,38,39	4/25/96	b-BHC	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Cadmium	0	0.000	mg/Kg	0.5
C-7	C961037,38,39	4/25/96	Chlordane	0	0.000	mg/kg	0.15
C-7	C961037,38,39	4/25/96	Chromium	35	61.404	mg/Kg	1
C-7	C961037,38,39	4/25/96	Copper	33	57.895	mg/Kg	0.4
C-7	C961037,38,39	4/25/96	d-BHC	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Dieldrin	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Endosulfan I	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Endosulfan II	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Endrin	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	g-BHC	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Heptachlor	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Lead	8.1	14.211	mg/Kg	0.1
C-7	C961037,38,39	4/25/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-7	C961037,38,39	4/25/96	Methoxychlor	0	0.000	mg/kg	0.005
C-7	C961037,38,39	4/25/96	Moisture, Percent	43	75.439	%	0.01
C-7	C961037,38,39	4/25/96	Neutralization acidity ratio	-0.15	-0.263	CaCO3 ton	
C-7	C961037,38,39	4/25/96	Neutralization Potential	-2	-3.509	CaCO3 ton	-1000
C-7	C961037,38,39	4/25/96	Nickel	46	80.702	mg/Kg	0.1
C-7	C961037,38,39	4/25/96	pH	6.2	10.877	STD	
C-7	C961037,38,39	4/25/96	Selenium	0.8	1.404	mg/Kg	0.4
C-7	C961037,38,39	4/25/96	Silver	0	0.000	mg/Kg	0.05
C-7	C961037,38,39	4/25/96	Specific Conductance	350	614.035	µmhos/cm	1
C-7	C961037,38,39	4/25/96	Thallium	0	0.000	mg/Kg	1
C-7	C961037,38,39	4/25/96	Total Oil & Grease	220	385.965	mg/kg	20
C-7	C961037,38,39	4/25/96	Total Organic Carbon, TOC	130000	228070.175	mg/kg	10
C-7	C961037,38,39	4/25/96	Total Volatile Solids	60	105.263	%	0.01

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-7	C961037,38,39	4/25/96	Toxaphene	0	0.000	mg/kg	0.1
C-7	C961037,38,39	4/25/96	Zinc	31	54.386	mg/Kg	0.4
C-8	C960958,59,60	4/26/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
C-8	C960958,59,60	4/26/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Chromium	0	0.000	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Copper	0	0.000	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Dissolved Solids	230	365.079	mg/Kg	5
C-8	C960958,59,60	4/26/96	(DIWET) Lead	0.012	0.019	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-8	C960958,59,60	4/26/96	(DIWET) Nickel	0.006	0.010	mg/L	0.006
C-8	C960958,59,60	4/26/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-8	C960958,59,60	4/26/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-8	C960958,59,60	4/26/96	(DIWET) Zinc	0.23	0.365	mg/L	0.003
C-8	C960958,59,60	4/26/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	a-BHC	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Acid Potential	12	19.048	CaCO3 ton	
C-8	C960958,59,60	4/26/96	Aldrin	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1254	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-8	C960958,59,60	4/26/96	Arsenic	11	17.460	mg/Kg	0.4
C-8	C960958,59,60	4/26/96	b-BHC	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Cadmium	0	0.000	mg/Kg	0.5
C-8	C960958,59,60	4/26/96	Chlordane	0	0.000	mg/kg	0.15
C-8	C960958,59,60	4/26/96	Chromium	39	61.905	mg/Kg	1
C-8	C960958,59,60	4/26/96	Copper	36	57.143	mg/Kg	0.4
C-8	C960958,59,60	4/26/96	d-BHC	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Dieldrin	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Endosulfan I	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Endosulfan II	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Endrin	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	g-BHC	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Heptachlor	0	0.000	mg/kg	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-8	C960958,59,60	4/26/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Lead	13	20.635	mg/Kg	0.1
C-8	C960958,59,60	4/26/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-8	C960958,59,60	4/26/96	Methoxychlor	0	0.000	mg/kg	0.005
C-8	C960958,59,60	4/26/96	Moisture, Percent	37	58.730	%	0.01
C-8	C960958,59,60	4/26/96	Neutralization acidity ratio	0.5	0.794	CaCO3 ton	
C-8	C960958,59,60	4/26/96	Neutralization Potential	6	9.524	CaCO3 ton	-1000
C-8	C960958,59,60	4/26/96	Nickel	41	65.079	mg/Kg	0.1
C-8	C960958,59,60	4/26/96	pH	6.4	10.159	STD	
C-8	C960958,59,60	4/26/96	Selenium	0	0.000	mg/Kg	0.4
C-8	C960958,59,60	4/26/96	Silver	0	0.000	mg/Kg	0.05
C-8	C960958,59,60	4/26/96	Specific Conductance	380	603.175	µmhos/cm	1
C-8	C960958,59,60	4/26/96	Thallium	0	0.000	mg/Kg	1
C-8	C960958,59,60	4/26/96	Total Oil & Grease	97	153.968	mg/kg	20
C-8	C960958,59,60	4/26/96	Total Organic Carbon, TOC	310000	492063.492	mg/kg	10
C-8	C960958,59,60	4/26/96	Total Volatile Solids	54	85.714	%	0.01
C-8	C960958,59,60	4/26/96	Toxaphene	0	0.000	mg/kg	0.1
C-8	C960958,59,60	4/26/96	Zinc	38	60.317	mg/Kg	0.4
C-9	C960961,62,63	4/26/96	(DIWET) Arsenic	0.005	0.008	mg/L	0.002
C-9	C960961,62,63	4/26/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Chromium	0	0.000	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Copper	0.008	0.013	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Dissolved Solids	160	253.968	mg/Kg	5
C-9	C960961,62,63	4/26/96	(DIWET) Lead	0.01	0.016	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
C-9	C960961,62,63	4/26/96	(DIWET) Nickel	0.013	0.021	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Selenium	0	0.000	mg/L	0.002
C-9	C960961,62,63	4/26/96	(DIWET) Silver	0	0.000	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Thallium	0	0.000	mg/L	0.005
C-9	C960961,62,63	4/26/96	(DIWET) Zinc	0.21	0.333	mg/L	0.003
C-9	C960961,62,63	4/26/96	4,4'-DDD	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	4,4'-DDE	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	4,4'-DDT	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	a-BHC	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Acid Potential	11	17.460	CaCO3 ton	
C-9	C960961,62,63	4/26/96	Aldrin	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Arochlor 1016	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arochlor 1221	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arochlor 1232	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arochlor 1242	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arochlor 1248	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arochlor 1254	0	0.000	mg/kg	0.2

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
C-9	C960961,62,63	4/26/96	Arochlor 1260	0	0.000	mg/kg	0.2
C-9	C960961,62,63	4/26/96	Arsenic	9.5	15.079	mg/Kg	0.4
C-9	C960961,62,63	4/26/96	b-BHC	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Cadmium	0	0.000	mg/Kg	0.5
C-9	C960961,62,63	4/26/96	Chlordane	0	0.000	mg/kg	0.15
C-9	C960961,62,63	4/26/96	Chromium	36	57.143	mg/Kg	1
C-9	C960961,62,63	4/26/96	Copper	36	57.143	mg/Kg	0.4
C-9	C960961,62,63	4/26/96	d-BHC	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Dieldrin	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Endosulfan I	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Endosulfan II	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Endrin	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	g-BHC	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Heptachlor	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Lead	12	19.048	mg/Kg	0.1
C-9	C960961,62,63	4/26/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
C-9	C960961,62,63	4/26/96	Methoxychlor	0	0.000	mg/kg	0.005
C-9	C960961,62,63	4/26/96	Moisture, Percent	37	58.730	%	0.01
C-9	C960961,62,63	4/26/96	Neutralization acidity ratio	0.55	0.873	CaCO3 ton	
C-9	C960961,62,63	4/26/96	Neutralization Potential	6	9.524	CaCO3 ton	-1000
C-9	C960961,62,63	4/26/96	Nickel	43	68.254	mg/Kg	0.1
C-9	C960961,62,63	4/26/96	pH	6.4	10.159	STD	
C-9	C960961,62,63	4/26/96	Selenium	0	0.000	mg/Kg	0.4
C-9	C960961,62,63	4/26/96	Silver	0	0.000	mg/Kg	0.05
C-9	C960961,62,63	4/26/96	Specific Conductance	240	380.952	µmhos/cm	1
C-9	C960961,62,63	4/26/96	Thallium	0	0.000	mg/Kg	1
C-9	C960961,62,63	4/26/96	Total Oil & Grease	220	349.206	mg/kg	20
C-9	C960961,62,63	4/26/96	Total Organic Carbon, TOC	170000	269841.270	mg/kg	10
C-9	C960961,62,63	4/26/96	Total Volatile Solids	59	93.651	%	0.01
C-9	C960961,62,63	4/26/96	Toxaphene	0	0.000	mg/kg	0.1
C-9	C960961,62,63	4/26/96	Zinc	32	50.794	mg/Kg	0.4
LC-1	C960992,93,94	5/22/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
LC-1	C960992,93,94	5/22/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
LC-1	C960992,93,94	5/22/96	(DIWET) Chromium	0	0.000	mg/L	0.005
LC-1	C960992,93,94	5/22/96	(DIWET) Copper	0	0.000	mg/L	0.005
LC-1	C960992,93,94	5/22/96	(DIWET) Dissolved Solids	1600	1904.762	mg/Kg	5
LC-1	C960992,93,94	5/22/96	(DIWET) Lead	0	0.000	mg/L	0.005
LC-1	C960992,93,94	5/22/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
LC-1	C960992,93,94	5/22/96	(DIWET) Nickel	0.012	0.014	mg/L	0.005

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
LC-1	C960992,93,94	5/22/96	(DIWET) Selenium	0	0.000	mg/L	0.002
LC-1	C960992,93,94	5/22/96	(DIWET) Silver	0	0.000	mg/L	0.002
LC-1	C960992,93,94	5/22/96	(DIWET) Thallium	0	0.000	mg/L	0.005
LC-1	C960992,93,94	5/22/96	(DIWET) Zinc	0.023	0.027	mg/L	0.003
LC-1	C960992,93,94	5/22/96	4,4'-DDD	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	4,4'-DDE	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	4,4'-DDT	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	a-BHC	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Acid Potential	8	9.524	CaCO3 ton	
LC-1	C960992,93,94	5/22/96	Aldrin	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Arochlor 1016	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1221	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1232	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1242	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1248	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1254	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arochlor 1260	0	0.000	mg/kg	0.2
LC-1	C960992,93,94	5/22/96	Arsenic	6.8	8.095	mg/Kg	0.4
LC-1	C960992,93,94	5/22/96	b-BHC	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Cadmium	0	0.000	mg/Kg	0.5
LC-1	C960992,93,94	5/22/96	Chlordane	0	0.000	mg/kg	0.15
LC-1	C960992,93,94	5/22/96	Chromium	24	28.571	mg/Kg	1
LC-1	C960992,93,94	5/22/96	Copper	25	29.762	mg/Kg	0.4
LC-1	C960992,93,94	5/22/96	d-BHC	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Dibutyltin	0	0.000	µg/kg (ppb)	1
LC-1	C960992,93,94	5/22/96	Dieldrin	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Endosulfan I	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Endosulfan II	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Endrin	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	g-BHC	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Heptachlor	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Lead	10	11.905	mg/Kg	0.1
LC-1	C960992,93,94	5/22/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
LC-1	C960992,93,94	5/22/96	Methoxychlor	0	0.000	mg/kg	0.005
LC-1	C960992,93,94	5/22/96	Moisture, Percent	16	19.048	%	0.01
LC-1	C960992,93,94	5/22/96	Monobutyltin	0	0.000	µg/kg (ppb)	1
LC-1	C960992,93,94	5/22/96	Neutralization acidity ratio	4.13	4.917	CaCO3 ton	
LC-1	C960992,93,94	5/22/96	Neutralization Potential	33	39.286	CaCO3 ton	-1000
LC-1	C960992,93,94	5/22/96	Nickel	32	38.095	mg/Kg	0.1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
LC-1	C960992,93,94	5/22/96	pH	7.5	8.929	STD	
LC-1	C960992,93,94	5/22/96	Selenium	0	0.000	mg/Kg	0.4
LC-1	C960992,93,94	5/22/96	Silver	0.63	0.750	mg/Kg	0.05
LC-1	C960992,93,94	5/22/96	Specific Conductance	1800	2142.857	µmhos/cm	1
LC-1	C960992,93,94	5/22/96	Tetrabutyltin	0	0.000	µg/kg (ppb)	1
LC-1	C960992,93,94	5/22/96	Thallium	0	0.000	mg/Kg	1
LC-1	C960992,93,94	5/22/96	Total Oil & Grease	89	105.952	mg/kg	50
LC-1	C960992,93,94	5/22/96	Total Organic Carbon, TOC	1900	2261.905	mg/kg	10
LC-1	C960992,93,94	5/22/96	Total Volatile Solids	20	23.810	%	0.01
LC-1	C960992,93,94	5/22/96	Toxaphene	0	0.000	mg/kg	0.1
LC-1	C960992,93,94	5/22/96	Tributyltin	0	0.000	µg/kg (ppb)	1
LC-1	C960992,93,94	5/22/96	Zinc	64	76.190	mg/Kg	0.4
LC-2	C960995,96	5/22/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
LC-2	C960995,96	5/22/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Chromium	0	0.000	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Copper	0.008	0.009	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Dissolved Solids	70	74.946	mg/Kg	5
LC-2	C960995,96	5/22/96	(DIWET) Lead	0.008	0.009	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
LC-2	C960995,96	5/22/96	(DIWET) Nickel	0.014	0.015	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Selenium	0	0.000	mg/L	0.002
LC-2	C960995,96	5/22/96	(DIWET) Silver	0	0.000	mg/L	0.002
LC-2	C960995,96	5/22/96	(DIWET) Thallium	0	0.000	mg/L	0.005
LC-2	C960995,96	5/22/96	(DIWET) Zinc	0.16	0.171	mg/L	0.003
LC-2	C960995,96	5/22/96	4,4'-DDD	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	4,4'-DDE	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	4,4'-DDT	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	a-BHC	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Acid Potential	1	1.071	CaCO3 ton	
LC-2	C960995,96	5/22/96	Aldrin	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Arochlor 1016	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1221	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1232	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1242	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1248	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1254	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arochlor 1260	0	0.000	mg/kg	0.2
LC-2	C960995,96	5/22/96	Arsenic	3.6	3.854	mg/Kg	0.4
LC-2	C960995,96	5/22/96	b-BHC	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Cadmium	0	0.000	mg/Kg	0.5
LC-2	C960995,96	5/22/96	Chlordane	0	0.000	mg/kg	0.15
LC-2	C960995,96	5/22/96	Chromium	17	18.201	mg/Kg	1

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
LC-2	C960995,96	5/22/96	Copper	11	11.777	mg/Kg	0.4
LC-2	C960995,96	5/22/96	d-BHC	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Dibutyltin	0	0.000	µg/kg (ppb)	1
LC-2	C960995,96	5/22/96	Dieldrin	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Endosulfan I	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Endosulfan II	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Endrin	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	g-BHC	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Heptachlor	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Lead	15	16.060	mg/Kg	0.1
LC-2	C960995,96	5/22/96	Mercury (Hg)	0.1	0.107	mg/Kg	0.1
LC-2	C960995,96	5/22/96	Methoxychlor	0	0.000	mg/kg	0.005
LC-2	C960995,96	5/22/96	Moisture, Percent	6.6	7.066	%	0.01
LC-2	C960995,96	5/22/96	Monobutyltin	0	0.000	µg/kg (ppb)	1
LC-2	C960995,96	5/22/96	Neutralization acidity ratio	4	4.283	CaCO3 ton	
LC-2	C960995,96	5/22/96	Neutralization Potential	4	4.283	CaCO3 ton	-1000
LC-2	C960995,96	5/22/96	Nickel	19	20.343	mg/Kg	0.1
LC-2	C960995,96	5/22/96	pH	6.6	7.066	STD	
LC-2	C960995,96	5/22/96	Selenium	0	0.000	mg/Kg	0.4
LC-2	C960995,96	5/22/96	Silver	0.5	0.535	mg/Kg	0.05
LC-2	C960995,96	5/22/96	Specific Conductance	59	63.169	µmhos/cm	1
LC-2	C960995,96	5/22/96	Tetrabutyltin	0	0.000	µg/kg (ppb)	1
LC-2	C960995,96	5/22/96	Thallium	0	0.000	mg/Kg	1
LC-2	C960995,96	5/22/96	Total Oil & Grease	0	0.000	mg/kg	50
LC-2	C960995,96	5/22/96	Total Organic Carbon, TOC	7900	8458.244	mg/kg	10
LC-2	C960995,96	5/22/96	Total Volatile Solids	9.1	9.743	%	0.01
LC-2	C960995,96	5/22/96	Toxaphene	0	0.000	mg/kg	0.1
LC-2	C960995,96	5/22/96	Tributyltin	0	0.000	µg/kg (ppb)	1
LC-2	C960995,96	5/22/96	Zinc	51	54.604	mg/Kg	0.4
LC-3	C961007,08,09	5/22/96	(DIWET) Arsenic	0.006	0.007	mg/L	0.002
LC-3	C961007,08,09	5/22/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Chromium	0.014	0.017	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Copper	0.012	0.015	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Dissolved Solids	430	530.864	mg/Kg	5
LC-3	C961007,08,09	5/22/96	(DIWET) Lead	0	0.000	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
LC-3	C961007,08,09	5/22/96	(DIWET) Nickel	0.008	0.010	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Selenium	0	0.000	mg/L	0.002
LC-3	C961007,08,09	5/22/96	(DIWET) Silver	0	0.000	mg/L	0.002

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
LC-3	C961007,08,09	5/22/96	(DIWET) Thallium	0	0.000	mg/L	0.005
LC-3	C961007,08,09	5/22/96	(DIWET) Zinc	0.076	0.094	mg/L	0.003
LC-3	C961007,08,09	5/22/96	4,4'-DDD	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	4,4'-DDE	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	4,4'-DDT	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	a-BHC	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Acid Potential	1	1.235	CaCO3 ton	
LC-3	C961007,08,09	5/22/96	Aldrin	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Arochlor 1016	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1221	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1232	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1242	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1248	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1254	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arochlor 1260	0	0.000	mg/kg	0.2
LC-3	C961007,08,09	5/22/96	Arsenic	9	11.111	mg/Kg	0.4
LC-3	C961007,08,09	5/22/96	b-BHC	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Cadmium	0	0.000	mg/Kg	0.5
LC-3	C961007,08,09	5/22/96	Chlordane	0	0.000	mg/kg	0.15
LC-3	C961007,08,09	5/22/96	Chromium	39	48.148	mg/Kg	1
LC-3	C961007,08,09	5/22/96	Copper	36	44.444	mg/Kg	0.4
LC-3	C961007,08,09	5/22/96	d-BHC	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Dibutyltin	0	0.000	µg/kg (ppb)	1
LC-3	C961007,08,09	5/22/96	Dieldrin	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Endosulfan I	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Endosulfan II	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Endrin	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	g-BHC	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Heptachlor	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Lead	12	14.815	mg/Kg	0.1
LC-3	C961007,08,09	5/22/96	Mercury (Hg)	0.1	0.123	mg/Kg	0.1
LC-3	C961007,08,09	5/22/96	Methoxychlor	0	0.000	mg/kg	0.005
LC-3	C961007,08,09	5/22/96	Moisture, Percent	19	23.457	%	0.01
LC-3	C961007,08,09	5/22/96	Monobutyltin	0	0.000	µg/kg (ppb)	1
LC-3	C961007,08,09	5/22/96	Neutralization acidity ratio	25	30.864	CaCO3 ton	
LC-3	C961007,08,09	5/22/96	Neutralization Potential	25	30.864	CaCO3 ton	-1000
LC-3	C961007,08,09	5/22/96	Nickel	42	51.852	mg/Kg	0.1
LC-3	C961007,08,09	5/22/96	pH	8.2	10.123	STD	
LC-3	C961007,08,09	5/22/96	Selenium	1	1.235	mg/Kg	0.4

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
LC-3	C961007,08,09	5/22/96	Silver	1.2	1.481	mg/Kg	0.05
LC-3	C961007,08,09	5/22/96	Specific Conductance	430	530.864	µmhos/cm	1
LC-3	C961007,08,09	5/22/96	Tetrabutyltin	0	0.000	µg/kg (ppb)	1
LC-3	C961007,08,09	5/22/96	Thallium	0	0.000	mg/Kg	1
LC-3	C961007,08,09	5/22/96	Total Oil & Grease	0	0.000	mg/kg	50
LC-3	C961007,08,09	5/22/96	Total Organic Carbon, TOC	11000	13580.247	mg/kg	10
LC-3	C961007,08,09	5/22/96	Total Volatile Solids	25	30.864	%	0.01
LC-3	C961007,08,09	5/22/96	Toxaphene	0	0.000	mg/kg	0.1
LC-3	C961007,08,09	5/22/96	Tributyltin	1	1.235	µg/kg (ppb)	1
LC-3	C961007,08,09	5/22/96	Zinc	77	95.062	mg/Kg	0.4
RS1	C961015	5/22/96	(DIWET) Arsenic	0	0.000	mg/L	0.002
RS1	C961015	5/22/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Chromium	0	0.000	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Copper	0	0.000	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Dissolved Solids	340	430.380	mg/Kg	5
RS1	C961015	5/22/96	(DIWET) Lead	0	0.000	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
RS1	C961015	5/22/96	(DIWET) Nickel	0.14	0.177	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Selenium	0	0.000	mg/L	0.002
RS1	C961015	5/22/96	(DIWET) Silver	0	0.000	mg/L	0.002
RS1	C961015	5/22/96	(DIWET) Thallium	0	0.000	mg/L	0.005
RS1	C961015	5/22/96	(DIWET) Zinc	0.064	0.081	mg/L	0.003
RS1	C961015	5/22/96	4,4'-DDD	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	4,4'-DDE	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	4,4'-DDT	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	a-BHC	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Acenaphthene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Acenaphthylene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Acid Potential	11	13.924	CaCO3 ton	
RS1	C961015	5/22/96	Aldrin	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Anthracene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Arochlor 1016	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1221	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1232	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1242	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1248	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1254	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arochlor 1260	0	0.000	mg/kg	0.2
RS1	C961015	5/22/96	Arsenic	6.8	8.608	mg/Kg	0.4
RS1	C961015	5/22/96	b-BHC	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Benz(a)anthracene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Benzo(a)pyrene	0	0.000	mg/kg	0.02

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
RS1	C961015	5/22/96	Benzo(b)fluoranthene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Benzo(ghi)perylene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Benzo(k)fluoranthene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	bis(2-Ethylhexyl) phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Butyl benzyl phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Cadmium	0	0.000	mg/Kg	0.5
RS1	C961015	5/22/96	Chlordane	0	0.000	mg/kg	0.15
RS1	C961015	5/22/96	Chromium	47	59.494	mg/Kg	1
RS1	C961015	5/22/96	Chrysene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Copper	50	63.291	mg/Kg	0.4
RS1	C961015	5/22/96	d-BHC	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Di-n-butyl phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Di-n-octyl phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Dibenz(a,h)anthracene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Dibutyltin	0	0.000	µg/kg (ppb)	1
RS1	C961015	5/22/96	Dieldrin	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Diethyl phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Dimethyl phthalate	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Endosulfan I	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Endosulfan II	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Endrin	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Fluoranthene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Fluorene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	g-BHC	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Heptachlor	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Indeno(1,2,3-cd)pyrene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Lead	11	13.924	mg/Kg	0.1
RS1	C961015	5/22/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
RS1	C961015	5/22/96	Methoxychlor	0	0.000	mg/kg	0.005
RS1	C961015	5/22/96	Moisture, Percent	21	26.582	%	0.01
RS1	C961015	5/22/96	Monobutyltin	0	0.000	µg/kg (ppb)	1
RS1	C961015	5/22/96	Naphthalene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Neutralization acidity ratio	-0.67	-0.848	CaCO3 ton	
RS1	C961015	5/22/96	Neutralization Potential	-4	-5.063	CaCO3 ton	-1000
RS1	C961015	5/22/96	Nickel	68	86.076	mg/Kg	0.1
RS1	C961015	5/22/96	pH	4.5	5.696	STD	
RS1	C961015	5/22/96	Phenanthrene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Pyrene	0	0.000	mg/kg	0.02
RS1	C961015	5/22/96	Selenium	0	0.000	mg/Kg	0.4

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
RS1	C961015	5/22/96	Silver	0.42	0.532	mg/Kg	0.05
RS1	C961015	5/22/96	Specific Conductance	580	734.177	µmhos/cm	1
RS1	C961015	5/22/96	Tetrabutyltin	0	0.000	µg/kg (ppb)	1
RS1	C961015	5/22/96	Thallium	0	0.000	mg/Kg	1
RS1	C961015	5/22/96	Total Oil & Grease	0	0.000	mg/kg	50
RS1	C961015	5/22/96	Total Organic Carbon, TOC	67000	84810.127	mg/kg	10
RS1	C961015	5/22/96	Total Volatile Solids	31	39.241	%	0.01
RS1	C961015	5/22/96	Toxaphene	0	0.000	mg/kg	0.1
RS1	C961015	5/22/96	Tributyltin	0	0.000	µg/kg (ppb)	1
RS1	C961015	5/22/96	Zinc	91	115.190	mg/Kg	0.4
RS2	C961016	5/22/96	(DIWET) Arsenic	0.006	0.008	mg/L	0.002
RS2	C961016	5/22/96	(DIWET) Cadmium	0	0.000	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Chromium	0.006	0.008	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Copper	0.01	0.013	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Dissolved Solids	250	333.333	mg/Kg	5
RS2	C961016	5/22/96	(DIWET) Lead	0	0.000	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Mercury (Hg)	0	0.000	mg/L	0.0002
RS2	C961016	5/22/96	(DIWET) Nickel	0.038	0.051	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Selenium	0	0.000	mg/L	0.002
RS2	C961016	5/22/96	(DIWET) Silver	0	0.000	mg/L	0.002
RS2	C961016	5/22/96	(DIWET) Thallium	0	0.000	mg/L	0.005
RS2	C961016	5/22/96	(DIWET) Zinc	0.06	0.080	mg/L	0.003
RS2	C961016	5/22/96	4,4'-DDD	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	4,4'-DDE	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	4,4'-DDT	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	a-BHC	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Acenaphthene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Acenaphthylene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Acid Potential	6	8.000	CaCO3 ton	
RS2	C961016	5/22/96	Aldrin	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Anthracene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Arochlor 1016	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1221	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1232	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1242	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1248	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1254	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arochlor 1260	0	0.000	mg/kg	0.2
RS2	C961016	5/22/96	Arsenic	10	13.333	mg/Kg	0.4
RS2	C961016	5/22/96	b-BHC	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Benz(a)anthracene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Benzo(a)pyrene	0	0.000	mg/kg	0.02

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
RS2	C961016	5/22/96	Benzo(b)fluoranthene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Benzo(ghi)perylene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Benzo(k)fluoranthene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	bis(2-Ethylhexyl) phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Butyl benzyl phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Cadmium	0	0.000	mg/Kg	0.5
RS2	C961016	5/22/96	Chlordane	0	0.000	mg/kg	0.15
RS2	C961016	5/22/96	Chromium	38	50.667	mg/Kg	1
RS2	C961016	5/22/96	Chrysene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Copper	41	54.667	mg/Kg	0.4
RS2	C961016	5/22/96	d-BHC	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Di-n-butyl phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Di-n-octyl phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Dibenz(a,h)anthracene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Dibutyltin	0	0.000	µg/kg (ppb)	1
RS2	C961016	5/22/96	Dieldrin	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Diethyl phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Dimethyl phthalate	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Endosulfan I	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Endosulfan II	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Endosulfan Sulfate	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Endrin	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Endrin Aldehyde	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Fluoranthene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Fluorene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	g-BHC	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Heptachlor	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Heptachlor Epoxide	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Indeno(1,2,3-cd)pyrene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Lead	13	17.333	mg/Kg	0.1
RS2	C961016	5/22/96	Mercury (Hg)	0	0.000	mg/Kg	0.1
RS2	C961016	5/22/96	Methoxychlor	0	0.000	mg/kg	0.005
RS2	C961016	5/22/96	Moisture, Percent	25	33.333	%	0.01
RS2	C961016	5/22/96	Monobutyltin	0	0.000	µg/kg (ppb)	1
RS2	C961016	5/22/96	Naphthalene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Neutralization acidity ratio	-0.36	-0.480	CaCO3 ton	
RS2	C961016	5/22/96	Neutralization Potential	-4	-5.333	CaCO3 ton	-1000
RS2	C961016	5/22/96	Nickel	52	69.333	mg/Kg	0.1
RS2	C961016	5/22/96	pH	5.5	7.333	STD	
RS2	C961016	5/22/96	Phenanthrene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Pyrene	0	0.000	mg/kg	0.02
RS2	C961016	5/22/96	Selenium	0	0.000	mg/Kg	0.4

Byron Tract Soil Quality Data

DWR Site	DWR Sample ID	Date	Analyte	Wet Weight	Dry Weight	Units	Detection Limit
RS2	C961016	5/22/96	Silver	0.24	0.320	mg/Kg	0.05
RS2	C961016	5/22/96	Specific Conductance	640	853.333	µmhos/cm	1
RS2	C961016	5/22/96	Tetrabutyltin	0	0.000	µg/kg (ppb)	1
RS2	C961016	5/22/96	Thallium	0	0.000	mg/Kg	1
RS2	C961016	5/22/96	Total Organic Carbon, TOC	77000	102666.667	mg/kg	10
RS2	C961016	5/22/96	Total Volatile Solids	44	58.667	%	0.01
RS2	C961016	5/22/96	Toxaphene	0	0.000	mg/kg	0.1
RS2	C961016	5/22/96	Tributyltin	0	0.000	µg/kg (ppb)	1
RS2	C961016	5/22/96	Zinc	55	73.333	mg/Kg	0.4
RS2	C961485	6/6/96	Total Oil & Grease	290	386.667	mg/kg	20