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Factsheet Details

Waterbody ID: CAR9045100020011025132925
Waterbody Name: San Marcos Creek
Pollutant Name: Sediment Bioassays -- Chronic Toxicity -- Freshwater
Source Name: Source Unknown
Designated Beneficial Uses : WA - Warm Freshwater Habitat
Factsheet ID: 3168
LOE ID: 3736

Numeric Line of Evidence

- [Save Numeric LOE](#)
- [Assign References](#)
- [Assign Datasets](#)

LOE Subgroup: ▼
Fraction: ▼
Matrix: ▼
Number of Samples: (numeric)
Number of Exceedances: (numeric)

Standard/Criteria/Objective: All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population ▲
 (2000 characters max) ▼

Evaluation Guideline: ▲
 (2000 characters max) ▼

Data Used to Assess Water Quality: Two out of four samples displayed statistically significant toxicity in the survival endpoint when compared to the negative control based on a statistical test with alpha of less than 5%. One of the four samples (collected April 23, 2002) also displayed statistically significant toxicity in the survival endpoint compared to the negative control, but this datapoint is not included in the total 'toxic' samples as it had a data qualifier. All samples were tested using the 10-day ▲
 (4000 characters max) ▼

Spatial Representation: All samples were collected from one station, San Marcos Creek 3. ▲
 (2000 characters max) ▼

Temporal Representation: Samples were collected from March 2002 through September 2002. Toxicity in the survival endpoint was detected in samples collected on March 12, 2002 and September 18, 2002. ▲
 (2000 characters max) ▼

Environmental Conditions: ▲
 (2000 characters max) ▼

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Factsheet Details


Waterbody ID: CAR9045100020011025132925
Waterbody Name: San Marcos Creek
Pollutant Name: Sediment Bioassays -- Chronic Toxicity -- Freshwater
Source Name: Source Unknown
Designated Beneficial Uses : WA - Warm Freshwater Habitat
Factsheet ID: 3168
LOE ID: 3737


Numeric Line of Evidence


[Save Numeric LOE](#)
[Assign References](#)
[Assign Datasets](#)


LOE Subgroup: 
Fraction: 
Matrix: 
Number of Samples: (numeric) 
Number of Exceedances: (numeric) 


Standard/Criteria/Objective: 
 (2000 characters max)

Evaluation Guideline: 
 (2000 characters max)

Data Used to Assess Water Quality: 
 (4000 characters max)


Spatial Representation: 
 (2000 characters max)

Temporal Representation: 
 (2000 characters max)

Environmental Conditions: 
 (2000 characters max)


Quality Assurance Assessment

Quality Assurance: 

Good 









QAPP Information:

(2000 characters max) 

SWAMP QAPP. 

QA/QC Equivalent:

(2000 characters max) 

Quality Assurance: 	Good 
QAPP Information: (2000 characters max) 	SWAMP QAPP.  
QA/QC Equivalent: (2000 characters max) 	 

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Factsheet Details

Waterbody ID: CAR9042100020011025103123
Waterbody Name: Buena Vista Creek
Pollutant Name: Sediment Bioassays -- Chronic Toxicity -- Freshwater
Source Name: Source Unknown
Designated Beneficial Uses : WA - Warm Freshwater Habitat
Factsheet ID: 3166
LOE ID: 3734


Numeric Line of Evidence

- [Save Numeric LOE](#)
- [Assign References](#)
- [Assign Datasets](#)


LOE Subgroup: ?	Toxicity
Fraction: ?	Total
Matrix: ?	Sediment
Number of Samples: ?	<input type="text"/> (numeric)
Number of Exceedances: ?	<input type="text"/> (numeric)
Standard/Criteria/Objective: (2000 characters max) ?	All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population
Evaluation Guideline: (2000 characters max) ?	
Data Used to Assess Water Quality: (4000 characters max) ?	Two out of four samples displayed statistically significant toxicity in the survival endpoint when compared to the negative control based on a statistical test with alpha of less than 5%. All samples were tested using the 10-day Hyallela azteca test. Note that all four samples actually had significant toxicity relative to the control, but only the two samples without any QA qualifiers were considered as exceedances. (SWAMP, 2004).
Spatial Representation: (2000 characters max) ?	All samples were collected from one station, Buena Vista Creek 4.
Temporal Representation: (2000 characters max) ?	Samples were collected from March 2002 through September 2002. Toxicity in the survival endpoint was detected in samples collected on March 12, 2002 and September 16, 2002.
Environmental Conditions: (2000 characters max) ?	San Diego County Coastal Stream: Buena Vista Creek, Hydrologic Unit Basin Number 904.21.

Quality Assurance Assessment

Quality Assurance: 

Good 

QAPP Information:
(2000 characters max) 

SWAMP QAPP. 

QA/QC Equivalent:
(2000 characters max) 







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Factsheet Details

Waterbody ID: CAR9042100020011025103123
Waterbody Name: Buena Vista Creek
Pollutant Name: Total Dissolved Solids
Source Name: -N/A
Designated Beneficial Uses : AG - Agricultural Supply
Factsheet ID: 1853
LOE ID: 2292

Numeric Line of Evidence

- [Save Numeric LOE](#)
- [Assign References](#)
- [Assign Datasets](#)

LOE Subgroup: ▼
Fraction: ▼
Matrix: ▼
Number of Samples: (numeric)
Number of Exceedances: (numeric)

Standard/Criteria/Objective: ▲
 (2000 characters max) ▼

Evaluation Guideline: ▲
 (2000 characters max) ▼

Data Used to Assess Water Quality: ▲
 (4000 characters max) ▼


Spatial Representation: ▲
 (2000 characters max) ▼

Temporal Representation: ▲
 (2000 characters max) ▼

Environmental Conditions: ▲
 (2000 characters max) ▼

Quality Assurance Assessment

Quality Assurance: 

Unknown 

QAPP Information:

(2000 characters max) 




QA/QC Equivalent:

(2000 characters max) 

Data used in 2002 assessment.

Data used in 2002 assessment.




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Waterbody ID: CAR9043100020010924145051
Waterbody Name: Agua Hedionda Creek
Pollutant Name: Sulfates
Source Name: -N/A
Designated Beneficial Uses : MU - Municipal & Domestic
Factsheet ID: 3225
LOE ID: 3810

Numeric Line of Evidence

- [Save Numeric LOE](#)
- [Assign References](#)
- [Assign Datasets](#)

LOE Subgroup: ▼
Fraction: ▼
Matrix: ▼
Number of Samples: (numeric)
Number of Exceedances: (numeric)

Standard/Criteria/Objective: ▲
 (2000 characters max)

Evaluation Guideline: ▲
 (2000 characters max)

Data Used to Assess Water Quality: ▲
 (4000 characters max)




Spatial Representation: ▲
 (2000 characters max)



Temporal Representation: ▲
 (2000 characters max)


Environmental Conditions: ▲
 (2000 characters max)

Quality Assurance Assessment

Quality Assurance:  Good 

QAPP Information:  (2000 characters max)  SWAMP Quality Assurance Plan 

QA/QC Equivalent:  (2000 characters max) 




SULFATES

For a printable version (pdf) of this fact sheet, [click here](#)

WHAT ARE SULFATES?

Sulfates are mineral salts containing sulfur. Sulfate salts are found in some Wisconsin soils. The decay of plants, animals, and some industrial processes produce these salts. Mines, tanneries, steel mills, pulp mills, and textile plants also release sulfates into the environment.

Understanding the difference between sulfates and sulfites: Sulfites are different sulfur-containing chemicals used as food preservatives. Sulfites are not the same as sulfates. Some people, especially asthmatics, are sensitive to sulfites and can experience severe allergic reactions. Since 1987, food containing more than 10 parts per million (ppm) sulfites and drugs containing sulfites must be labeled.

Industrial waste water, household waste water, runoff from a hazardous waste site or naturally decaying material can put sulfates into waterways rivers, lakes and streams. Wastes that contain sulfates seep through soil and contaminate groundwater.

HOW ARE PEOPLE EXPOSED TO SULFATES?

Drinking/Eating: Most drinking water supplies contain traces of sulfates. One national survey found that sulfates in drinking water supplies range from less than 1 ppm to over 700 ppm. The average level in the survey was 46 ppm.

Sulfate levels in Wisconsin groundwater generally range from 15 to 60 ppm. Sulfates are naturally present, at safe levels, in many foods.

Breathing: Air may contain sulfates in areas of heavy industry. Many sulfate salts can react in air to form dilute acid, which can irritate eyes. People who live near such industrial areas may notice irritating levels of sulfates in air.

Touching: Sulfates do not absorb through skin enough to cause health problems.

DO STANDARDS EXIST FOR REGULATING SULFATES?

Water: The Wisconsin "secondary" standard for sulfates in drinking water is set at 250 ppm. This is called a secondary standard because it's based on taste rather than health effects. Most people can taste or smell sulfates in their water at 300 ppm or higher. Some sensitive people can taste the salts at levels as low as 200 ppm.

Air: The Wisconsin Department of Natural Resources (DNR) limits the amount of sulfur dioxide and sulfuric acid that can be released by industries. The DNR has no air quality standards for sulfates.

WILL EXPOSURE TO SULFATES RESULT IN HARMFUL HEALTH EFFECTS?

The following symptoms can appear a short time after someone drinks water that has over 500 ppm of sulfates:

- diarrhea, intestinal pain (especially in babies)
- dehydration as a result of diarrhea
- slight decrease in normal stomach acidity

Breathing sulfates can cause lung irritation. No long-term human health effects are expected from exposure to sulfates. In animal studies, sulfates did not appear to cause cancer or birth defects.

In general, chemicals affect the same organ systems in all people who are exposed. However, the seriousness of the effects may vary from person to person.

A person's reaction depends on several things, including individual health, heredity, age, previous exposure to chemicals including medicines, and personal habits such as smoking or drinking.

It's also important to consider the length of exposure to the chemical; the amount of chemical exposure; and whether the chemical was inhaled, touched, or eaten.

Seek medical advice if you have any symptoms that you think may be related to chemical exposure.

(PPH 4608 Revised 3/2000)

This fact sheet summarizes information about this chemical and is not a complete listing of all possible effects. It does not refer to work exposure or emergency situations.

For more information, contact:

- Wisconsin Poison Control Center, 800-222-1222
- Your local public health health department
- Division of Public Health, BEH, 1 West Wilson Street; Rm. 150, Madison, WI 53701-2659, (608) 266-1120
- The Agency for Toxic Substances and Disease Registry (ATSDR) Information Center toll-free at 1-888-422-8737 or e-mail ATSDRIC@cdc.gov

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Last Revised: June 14, 2004



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Factsheet Details

Waterbody ID: CAR9042100020011025103123
 Waterbody Name: Buena Vista Creek
 Pollutant Name: Total Dissolved Solids
 Source Name: -N/A
 Designated Beneficial Uses : AG - Agricultural Supply
 Factsheet ID: 1853
 LOE ID: 2292

Numeric Line of Evidence

- [Save Numeric LOE](#)
- [Assign References](#)
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LOE Subgroup: ▼
 Fraction: ▼
 Matrix: ▼
 Number of Samples: (numeric)
 Number of Exceedances: (numeric)

Standard/Criteria/Objective: (2000 characters max) ⓧ
 From the Basin Plan: For inland surface waters and all beneficial uses, the WQO for total dissolved solids is 500 mg/L. This concentration is not to be exceeded more than 10% of the time during any one year period.

Evaluation Guideline: (2000 characters max) ⓧ

Data Used to Assess Water Quality: (4000 characters max) ⓧ
 Data were collected by RWQCB9 in 1998. Two of 2 samples were in exceedance. (SWRCB, 2003).

Spatial Representation: (2000 characters max) ⓧ
 One set of samples were collected at Buena Vista Creek at South Vista Way. The other set were collected at Buena Vista Creek; exact location was not reported.

Temporal Representation: (2000 characters max) ⓧ
 Samples were collected once on 05/20/1998 and once on 06/29/1998.

Environmental Conditions: (2000 characters max) ⓧ

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09, 2006

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Factsheet Details

Waterbody ID: CAR9042100020011025103123
 Waterbody Name: Buena Vista Creek
 Pollutant Name: Sediment Bioassays -- Chronic Toxicity -- Freshwater
 Source Name: Source Unknown
 Designated Beneficial Uses : WA - Warm Freshwater Habitat
 Factsheet ID: 3166
 LOE ID: 3734


Numeric Line of Evidence

[Save Numeric LOE](#)[Assign References](#)[Assign Datasets](#)

LOE Subgroup:	Toxicity
Fraction:	Total
Matrix:	Sediment
Number of Samples:	(numeric)
Number of Exceedances:	(numeric)
Standard/Criteria/Objective: (2000 characters max)	All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population
Evaluation Guideline: (2000 characters max)	
Data Used to Assess Water Quality: (4000 characters max)	Two out of four samples displayed statistically significant toxicity in the survival endpoint when compared to the negative control based on a statistical test with alpha of less than 5%. All samples were tested using the 10-day Hyallela azteca test. Note that all four samples actually had significant toxicity relative to the control, but only the two samples without any QA qualifiers were considered as exceedances. (SWAMP, 2004).
Spatial Representation: (2000 characters max)	All samples were collected from one station, Buena Vista Creek 4.
Temporal Representation: (2000 characters max)	Samples were collected from March 2002 through September 2002. Toxicity in the survival endpoint was detected in samples collected on March 12, 2002 and September 16, 2002.
Environmental Conditions: (2000 characters max)	San Diego County Coastal Stream: Buena Vista Creek, Hydrologic Unit Basin Number 904.21.


Quality Assurance Assessment

Quality Assurance: 


Good 

QAPP Information:

(2000 characters max) 

SWAMP QAPP. 

QA/QC Equivalent:

(2000 characters max) 

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Waterbody ID: CAR9043100020010924145051
 Waterbody Name: Agua Hedionda Creek
 Pollutant Name: Manganese
 Source Name: -N/A
 Designated Beneficial Uses : MU - Municipal & Domestic
 Factsheet ID: 3241
 LOE ID: 3826

Numeric Line of Evidence[Save Numeric LOE](#)[Assign References](#)[Assign Datasets](#)

LOE Subgroup:	Pollutant-Water
Fraction:	Total
Matrix:	Water
Number of Samples:	4 (numeric)
Number of Exceedances:	2 (numeric)
Standard/Criteria/Objective: (2000 characters max)	The water quality objective for manganese in Agua Hedionda Creek is 0.05 milligrams/liter (mg/l) according to Basin Plan, Table 3-2 entitled, Water Quality Objectives. This concentration is not be exceeded more than 10% of the time during any one year period
Evaluation Guideline: (2000 characters max)	
Data Used to Assess Water Quality: (4000 characters max)	Two of 4 samples exceeded the water quality standard. (SWAMP, 2004).
Spatial Representation: (2000 characters max)	Samples taken at one station in Agua Hedionda Creek No. 33.14887 - 117.29758.
Temporal Representation: (2000 characters max)	Samples were collected from March through September of 2002.
Environmental Conditions: (2000 characters max)	Agua Hedionda Creek, Part of the San Diego Coastal Streams: Hydrologic Unit Basin Number 4.32


Quality Assurance Assessment

Quality Assurance: 

Good 

QAPP Information:

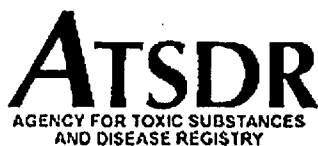
(2000 characters max) 

SWAMP Quality Assurance Plan 

QA/QC Equivalent:

(2000 characters max) 










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September 2000

- 1.1 What is manganese?
- 1.2 What happens to manganese when it enters the environment?
- 1.3 How might I be exposed to manganese?
- 1.4 How can manganese enter and leave my body?
- 1.5 How can manganese affect my health?
- 1.6 How can manganese affect children?
- 1.7 How can families reduce their risk of exposure to manganese?
- 1.8 Is there a medical test to determine whether I have been exposed to manganese?
- 1.9 What recommendations has the federal government made to protect human health?
- 1.10 Where can I get more information?

References

RELATED RESOURCES

- [ToxFAQ™](#)  47k
- [ToxFAQ™ en Español](#)  30k
- [Public Health Statement](#)  126k
- [Public Health Statement en Español](#)  228k
- [Toxicological Profile](#)  6.5MB

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ATSDR RESOURCES

- [ToxFAQs™](#)
- [ToxFAQs™ en Español](#)
- [Public Health Statements](#)

Public Health Statement for Manganese

CAS# 7439-96-5

This Public Health Statement is the summary chapter from the Toxicological Profile for manganese. It is one in a series of Public Health Statements about hazardous substances and their health effects. A shorter version, the ToxFAQs™, is also available. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present. For more information, call the ATSDR Information Center at 1-888-422-8737.

This public health statement tells you about manganese and the effects of exposure.

The Environmental Protection Agency (EPA) identifies the most serious hazardous waste sites in the nation. These sites make up the National Priorities List (NPL) and are the sites targeted for long-term federal cleanup activities. Manganese has been found in at least 603 of the 1,517 current or former NPL sites. However, the total number of NPL sites evaluated for this substance is not known. As more sites are evaluated, the sites at which manganese is found may increase. This information is important because exposure to this substance may harm you and because these sites may be sources of exposure.

When a substance is released from a large area, such as an industrial plant, or from a container, such as a drum or bottle, it enters the environment. This release does not always lead to exposure. You are exposed to a substance only when you come in contact with it. You may be exposed by breathing, eating, or drinking the substance or by skin contact.

If you are exposed to manganese, many factors determine whether you'll be harmed. These factors include the dose (how much), the duration (how long), and how you come in contact with it. You must also consider the other chemicals you're exposed to and your age, sex, diet, family traits, lifestyle, and state of health. This chapter discusses adverse (negative) effects from exposure to

Toxicological Profiles
Minimum Risk Levels
MMGs
MHMIIs
Interaction Profiles
Priority List of Hazardous Substances
Division of Toxicology

“high levels” or “too much” manganese. In general, these terms refer to levels of manganese reported in occupational settings, such as battery plants or smelters. Most people are not likely to be exposed to such high levels of manganese in a typical day. However, each person’s body handles manganese differently; therefore, it is not possible to predict at what level of manganese a person would begin to show symptoms of health effects from exposure to increased manganese.

1.1 What is manganese?

Manganese is a naturally occurring substance found in many types of rock. Manganese does not have a special taste or smell. Pure manganese is a silver-colored metal; however, it does not occur in the environment as a pure metal. Rather, it occurs combined with other substances such as oxygen, sulfur, and chlorine. These forms (called compounds) are solids that do not evaporate. However, small dust particles of the solid material can become suspended in air. Also, some manganese compounds can dissolve in water, and low levels of these compounds are normally present in lakes, streams, and the ocean. Manganese can change from one compound to another (either by natural processes or by human activity), but it does not break down or disappear in the environment.

Rocks with high levels of manganese compounds are mined and used to produce manganese metal. This manganese metal is mixed with iron to make various types of steel. Some manganese compounds are used in the production of batteries, in dietary supplements, and as ingredients in some ceramics, pesticides, and fertilizers.

Manganese is an essential trace element and is necessary for good health. The human body typically contains small quantities of manganese, and under normal circumstances, the body controls these amounts so that neither too little nor too much is present.

Different forms of manganese are discussed in this profile. These forms are either inorganic manganese or organic manganese. The inorganic manganese includes those forms of the element such as combustion products from cars or trucks, as well as the dusts that are present in steel or battery factories. Organic forms of manganese that are discussed are a gasoline additive, two pesticides, and a compound used in hospitals to test if a patient has certain types of cancer. The profile discusses what is known about the amount of these compounds that can be toxic to people and how these compounds can affect people’s health.

Chapters 3, 4, and 5 of the toxicological profile have more information on the properties and uses of manganese and how it behaves in the environment.

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1.2 What happens to manganese when it enters the environment?

Manganese and manganese compounds exist naturally in the environment as solids in the soil and as small particles in water. Manganese may also be present in small dust-like particles in the air. These manganese-containing particles usually settle out of the air within a few days depending on their size, weight, density, and the weather conditions. Manganese exists naturally in rivers and lakes, and is also naturally present in some underground water. Algae and plankton in the water can consume some manganese and concentrate it within themselves.

In addition to occurring naturally in the environment, manganese can be introduced by human activity. Manganese can be released into the air by industry and by the burning of fossil fuels. More specifically, sources of airborne manganese include iron- and steel-producing plants, power plants, coke ovens, and dust from uncontrolled mining operations. Manganese released from burning a gasoline additive may also be a source of manganese in the air. Manganese from these human-made sources can enter surface water, groundwater, and sewage waters. Small manganese particles can also be picked up by water flowing through landfills and soil. The chemical state of manganese and the type of soil determine how fast it moves through the soil and how much is retained in the soil. Maneb and mancozeb, two pesticides that contain manganese, may also add to the amount of manganese in the environment when they are applied to crops or released to the environment from packaging factories. There is information on the amount of mane b and mancozeb released into the environment from facilities that make or use these pesticides. However, the amount of manganese in the environment because of the release and use of these pesticides is not known.

To avoid staining clothes or plumbing fixtures, the EPA recommends that the concentration of manganese in drinking water not be more than 0.05 ppm. FDA has set the same level for bottled water. This concentration is believed to be more than adequate to protect human health. The EPA has also established rules that set limits on the amount of manganese that factories can dump into water. EPA requires factories that use or produce manganese to report how much they dump in the environment. OSHA has set limits of 5 mg/m³ for fume and 0.2 mg/m³ for particulate matter as the average amounts of manganese in workplace air over 8-hour workday (OSHA 1998). Similarly, the ACGIH (American Conference of Governmental Industrial Hygienists) has set a limit of 1 mg/m³ for manganese fume and 0.2 mg/m³ for the average amount of manganese, either elemental or as inorganic compounds, that can be present in the air over an 8-hour workday (ACGIH 1998).

For more information on manganese in the environment, see Chapter 5 of the toxicological profile.

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1.3 How might I be exposed to manganese?

Because manganese is a natural component of the environment, you are always exposed to low levels of it in water, air, soil, and food. In drinking water, levels are usually about 0.004 parts manganese per million parts (ppm) of water. In air, levels are usually about 0.00002 milligrams manganese per cubic meter (mg/m³) of air. Natural levels in soil usually range from 40 to 900 ppm. Manganese is also a normal part of living things, including both plants and animals, so it is present in foods. For nearly all people, food is the main source of manganese, and usual daily intakes range from about 1 to 10 mg/day. The exact amount you take in depends on your diet.

You are most likely to be exposed to higher-than-usual levels of manganese or manganese-containing chemicals if you work in a factory where manganese metal is produced from manganese ores or where manganese compounds are used to make steel or other products. In these factories you would be exposed mainly by breathing in manganese dust. If you live near such a factory you could also be exposed to higher-than-usual levels of manganese dust in the outside air, although the amounts would be much lower than in the factory. You might be exposed to higher-than-usual levels if you live near a coal- or oil-burning factory because manganese is released into the air when these fossil fuels are burned. Some areas of the country use a gasoline that has manganese added to it to increase performance. You could also be exposed to higher-than-usual levels of manganese if you live in a major urban area where such gasoline is used, if you have a job in which you make or have contact with that gasoline every day (such as a mechanic), or if you are exposed to a high amount of car exhaust on a daily basis (at bus stops, gas stations, etc.). You can also be exposed to manganese if you use pesticides that contain it. People who deal with such pesticides may be exposed through skin contact, but there have been instances in which workers may have accidentally eaten or inhaled some pesticides. You may also be exposed to manganese by eating foods that contain small, leftover amounts (residues) of these pesticides.

If manganese compounds, either naturally-occurring or from a factory or a hazardous waste site, get into water, you could be exposed to higher-than-usual levels by drinking the water.

See Chapter 5 of the toxicological profile for more information on how you might be exposed to manganese or its compounds.

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1.4 How can manganese enter and leave my body?

Humans are exposed to manganese in the food and water they eat and drink and in the air they breathe. Infants eat manganese that is present in breast milk, soy-based infant formulas, or cow's milk. The amount of manganese in these sources is generally not a problem, and they provide the manganese that is necessary for normal functioning of the body. If you live near a hazardous waste site, you could possibly eat or drink higher-than usual levels of manganese that are in soil or water or breathe manganese-containing dust particles in the air that come from the waste site. The contribution of these exposure routes to manganese's toxicity is uncertain; in general, adverse effects in people exposed through these routes have only been reported when environmental manganese levels were quite high. If you get manganese-contaminated soil or water on your skin, very little will enter your body, so this is not of concern. If you swallow manganese in water or in soil, most is excreted in the feces. However, about 3–5% is usually taken up and kept in the body. If you breathe air containing manganese dust, many of the smaller dust particles will be trapped in your lungs. Some of the manganese in these small particles may then dissolve in the lungs and enter the blood. The exact amount that may enter the blood is not known. Larger particles and those that do not dissolve will be coughed up, in a sticky layer of mucus, out of the lungs and into the throat, where they will be swallowed and will enter the stomach.

Manganese is a regular part of the human body; it is a necessary component in order for the body to work properly. The body normally controls the amount of absorbed manganese. For example, if large amounts of manganese are eaten in the diet, the body excretes large amounts in the feces. Therefore, the total amount of manganese in the body tends to stay about the same, even when exposure rates are higher or lower than usual. However, if too much manganese is taken in, the body may not be able to adjust for the added amount.

See Chapter 2 of the toxicological profile for more information on how manganese enters and leaves the body.

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1.5 How can manganese affect my health?

To protect the public from the harmful effects of toxic chemicals and to find ways to treat people who have been harmed, scientists use many tests.

One way to see if a chemical will hurt people is to learn how the chemical is absorbed, used, and released by the body; for some chemicals, animal testing may be necessary. Animal testing may also be used to identify health effects such as cancer or birth defects. Without laboratory animals, scientists would lose a basic method to get information needed to make wise decisions to protect public health. Scientists have the responsibility to treat

research animals with care and compassion. Laws today protect the welfare of research animals, and scientists must comply with strict animal care guidelines.

Manganese is an essential nutrient, and eating a small amount of it each day is important to stay healthy. Manganese is present in many foods, including grains and cereals, and is found in high concentrations in many foods, such as tea. The amount of manganese in typical western diets (about 1–10 mg manganese per day) appears to be enough to meet daily needs. Human diets with too little manganese can lead to slowed blood clotting, skin problems, changes in hair color, lowered cholesterol levels, and other alterations in metabolism. In animals, eating too little manganese can interfere with normal growth, bone formation, and reproduction.

Too much manganese may also cause serious illness. Most manganese compounds seem to cause the same effects, although it is unknown whether exposure to different manganese compounds results in slight differences in adverse effects. Manganese miners or steel workers exposed to high levels of manganese dust in air may have mental and emotional disturbances, and their body movements may become slow and clumsy. This combination of symptoms is a disease called 'manganism.' Workers do not usually develop symptoms of manganism unless they have been exposed to manganese for many months or years. Manganism occurs because too much manganese injures a part of the brain that helps control body movements. Some of the symptoms of manganism may improve upon certain medical treatments, but the improvements are usually temporary, and the brain injury is permanent. Manganism has been reported most often in miners. It has only been reported a few times in other workers exposed to the metal, such as steel workers. The symptoms most commonly observed in occupational workers (other than miners) include difficulty in the following motor skills: holding one's hand steady, performing fast hand movements, and maintaining balance when tested. These symptoms are not as severe as those related to manganism, indicating that the effects caused by manganese over-exposure are related to the level of exposure.

Most people who inhale manganese are involved in jobs where they are exposed to the metal. There is a possibility that people can be exposed to manganese in the air if they live near a plant that uses manganese, or if they live in a high traffic area and the automobiles burn manganese in the gasoline. A recent study showed that people who inhaled manganese from the air and who had high levels of manganese in their blood showed signs of neurological problems that were similar to those reported in occupationally-exposed persons. The neurological problems were most significant in the people aged 50 years and older.

It is not certain whether eating or drinking too much manganese can cause symptoms of manganism. In one report, people who drank water containing high concentrations of manganese developed a number of symptoms that were similar to those seen in manganese miners and steel workers. However, it is not clear whether these effects were caused by the manganese alone; other effects were noted, suggesting that other compounds may have been involved. In another report, people who drank water with above-average levels of manganese seemed to have a slightly higher frequency of symptoms such as weakness, stiff muscles, and trembling hands. However, these symptoms are not specific for manganism and might have been caused by other factors. Another study discovered that people who ate food with high concentrations of manganese, while also eating a diet low in magnesium, suffered nerve disease. Another study in adults over 40 years old who drank water with high manganese levels for at least 10 years reported no changes in behavior and no symptoms; that commonly occur in people exposed to excess levels of manganese. Two studies reported that children who drank water and who ate food with higher-than-usual levels of manganese did more poorly in school and on specific tests that measure coordination than children who had not eaten above-average amounts of manganese. However, these studies included several limitations; it is not clear whether the adverse effects in the children were caused only by eating too much manganese.

Studies in animals have shown that very high levels of manganese in food or water can cause changes in the brain. This information suggests that high levels of manganese in food or water might cause changes in the function of the nervous system. However, people exposed to manganese concentrations typically found in food, water, or air have little cause for concern.

Breathing too much manganese dust over a short or long time can cause irritation of the lungs. Sometimes this makes breathing difficult, and it can also increase the chances of getting a lung infection, such as pneumonia. However, this can happen from breathing in many kinds of dust particles and not just those that contain manganese.

A common effect in men who are exposed to high levels (levels seen in some occupational studies) of manganese dust in the air over a long time is impotence. Studies in animals show that too much manganese may also injure the testes. Much less is known about the effects of too much manganese on women's ability to reproduce. Studies in animals suggest that too much manganese can negatively affect a female's ability to reproduce.

No studies have been done to determine whether breathing manganese dust causes cancer in humans. Some studies in animals show that eating large amounts of manganese might increase the

chances of getting cancer. However, only a few animals in these studies developed cancer, and it was difficult to tell whether the tumors were really caused by the excess manganese. Thus, there is little evidence to suggest that cancer is a major concern for people exposed to manganese in the environment or near hazardous waste sites. The EPA has determined that manganese is not classifiable as a human carcinogen.

One compound that contains manganese, potassium permanganate, damages the skin. Two other compounds that contain manganese, the pesticides maneb and mancozeb, can cause skin reactions in people who have allergies to these pesticides. Skin rashes can occur because of these allergies, but once the exposure to the pesticide is stopped, the rashes and any other effects will usually go away. However, once a person has developed an allergy to a particular manganese-containing pesticide, that person may have similar allergic reactions to different, but related, pesticides.

The negative adverse effects of exposure to excess levels of manganese have been observed in all ages. Several studies in humans and animals indicate that the elderly may be a potentially susceptible population to the adverse effects of manganese exposure. Further, studies show that the young may also be a susceptible population. Effects of exposure to high levels of manganese in children are discussed in Section 1.6.

Chapter 2 of the toxicological profile has more information on the health effects of manganese exposure in humans and animals.

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1.6 How can manganese affect children?

This section discusses potential health effects from exposures during the period from conception to maturity at 18 years of age in humans. Potential effects on children resulting from exposures of the parents are also considered.

Children, like adults, are primarily exposed to manganese through the food they eat. The human diet typically provides the amount of manganese required for the normal functioning of a healthy body. Children, like adults, can also inhale manganese if it is present in the air.

In their daily activities, children contact a very different physical environment than adults do. Therefore, their behavior in their surroundings might allow them to contact manganese in ways in which adults typically would not. Young children sometimes eat dirt on purpose and often eat dirt accidentally by putting their hands into their mouths. If the soil contains manganese, children can be exposed to manganese in this unique way. However, there is little information on how well manganese in soil can be taken up from the stomach into the body if children eat it. Most soils

contain a background concentration of the metal (values range from 40–900 ppm, with an average estimated at 330 ppm). However, eating small amounts of soils containing background concentrations of manganese should not cause harm to most healthy children because of the tight control the body has over the amount of manganese it maintains.

No studies have discovered how much manganese children need to stay healthy or how much manganese they absorb from all environmental sources. Therefore, it is not known whether the amount of manganese per kilogram of body weight that children take into their bodies through eating or breathing is different from that amount in adults. Animal studies indicate that infant rats take in and retain more manganese than adult rats; therefore, infants and young children may also take up more manganese than adults.

Children who ate or drank above-average amounts of manganese did more poorly in school and on tests that measure coordination than other children who had not eaten increased amounts of manganese. Although the amounts of manganese in the water and food were measured, the amounts eaten by the children were not known. However, the studies that reported these results in children had several flaws; it is unclear if eating too much manganese was the cause for the difference in the children.

Adverse health effects have also been observed in children who cannot get rid of extra manganese from their body, such as children whose livers do not function properly. These effects include a lack of control over movements in their arms and legs, a tendency to overbalance when walking, and uncontrollable shaking in their arms and hands. In addition to children with problems removing excess manganese from their bodies, some, but not all, children who must have liquid-form nutrition injected into their veins, called total parenteral nutrition (TPN), have also shown these effects. In the cases involving liquid diets, the children had no control over the foods they ate, and there may have been too much manganese in the liquid food. These same effects have been observed in adults with similar liver conditions or on liquid diets. More serious health effects are typically observed only in people who have inhaled manganese in a work environment for many years. These occupational environments tend to have manganese levels that are much higher than the typical environment (10–70 nanograms/m³ in urban areas with no significant sources of manganese). The severe and permanent neurological effects and mood swings that might be anticipated from occupational studies of adults have not been reported in children. Workers who have been overexposed to manganese particles in the air have suffered wild mood swings, uncontrollable laughter or crying at inappropriate times, and abnormal facial expressions (stiff with grimacing or blank with no expression). Similar effects have also been seen in monkeys who have been

injected with low levels of manganese for only a few days. These serious effects of manganese overexposure might be expected in children who have been exposed to high concentrations of manganese for extended periods, although it is not known for sure. The levels of manganese children would have to breathe or eat before they showed these effects is not known.

Limited information suggests that higher-than-usual amounts of manganese can cause birth defects. One study in humans suggests that high levels of exposure to environmental manganese (in the soil, water, air, or food) might increase the chances of birth defects. However, it is not possible to reach a conclusion from this study because other factors were present that may have caused the birth defects. Studies involving animals exposed to manganese in air are limited. One study in animals shows that exposure of pregnant females to high levels of manganese in air resulted in decreased body weight in the pups. Other studies investigating birth defects have used different exposure methods. One study that involved exposing pregnant rats and their offspring to manganese in drinking water (over 21,000 times the amount that is typically recommended as safe for people to eat each day) found that the rat pups had a short-lived decrease in body weight and an increase in activity. Higher concentrations (approximately 37,000 times the recommended safe amount for humans) of manganese provided in food to animals were associated with decreased activity, while lower concentrations (approximately 1,100 times the recommended safe amount for humans) given all at once each day to rodents can cause delays in the growth of reproductive organs, decreased pup weight, mistakes in skeletal formation, behavioral differences in animals, and changes in the brain.

Other studies in which pregnant animals have been injected with manganese show that negative effects can be seen in unborn pups. These studies have reported delays in formation of skeletal bones and internal organs, suggesting that the skeletal system is a target for birth defects caused by manganese. However, except when manganese is administered via a liquid form of nutrition injected into their veins, humans are not exposed to manganese through injection.

Because manganese is a normal part of the human body, it is always present in the tissues and bloodstream of the mother; in addition, it can cross the placenta and enter an unborn baby. Manganese has been measured in plasma from the umbilical cord blood of premature and full-term babies, as well as in the blood of their mothers. The concentrations of manganese found in full-term babies were slightly higher than the concentrations found in premature babies, though these levels were not significantly different. Also, manganese levels in the livers of pregnant rats were much higher than those in non-pregnant rats, and the manganese levels in their unborn pups were higher than usual.

Although the few available animal studies indicate that excess manganese interferes with normal development of the fetus, the relevance of these studies to humans is not known. There is no information available on the effects in pregnant women from exposure to excess levels of manganese in air, food, or water.

Manganese is necessary for proper nutrition for a rapidly growing infant. The element is present in breast milk at approximately 4–10 µg/L, an amount that appears to be adequate for a nursing baby. Studies show that infant formulas contain more manganese than breast milk, but that infants absorb the same proportion of manganese from infant formulas, cow's milk, and breast milk. However, because cow milk formulas and soy formulas contain much larger amounts of manganese than breast milk, infants who are fed these formulas ingest much higher amounts of manganese than breast-fed infants. Whether these higher amounts of manganese are unhealthy for the infant is unknown.

Sections 2.6 and 5.6 of the toxicological profile contain more information on the effects of manganese on children.

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1.7 How can families reduce their risk of exposure to manganese?

If your doctor finds that you have been exposed to significant amounts of manganese, ask whether your children might also be exposed. Your doctor might need to ask your state health department to investigate.

In typical situations, there is no need to reduce exposure to manganese. A healthy body regulates the amount of manganese that it either keeps or eliminates based on the foods eaten and the air breathed. Because manganese is the twelfth most common element in the earth's crust, it is always found in measurable concentrations in topsoil. If young children eat soil, it is unknown whether they are able to absorb the manganese in the soil. No studies were located that would show how much, if any, manganese can be absorbed after eating soil. Despite this lack of information, manganese concentrations in soil are not typically high, and therefore, the amount of manganese that children might take in from eating soil should not be a great concern. However, if soil in your neighborhood contains large amounts of manganese from hazardous waste or other environmental sources, you should prevent your children from eating it and discourage children from putting their hands in their mouths or performing other hand-to-mouth activity.

Manganese is also present in drinking water. The EPA has set a Secondary Maximum Contaminant Level (MCL) for the metal in drinking water at 0.05 ppm because at higher concentrations it can stain clothes or plumbing fixtures. The Food and Drug

Administration (FDA) has also set this level for bottled water, and it is believed to be low enough to protect human health. Individuals with well water that leaves black deposits or dark stains in their sinks and other fixtures may want to have their water tested for high levels of manganese.

The exact amounts of manganese necessary for proper body functioning in an infant or child are not known. However, the effects of getting too little manganese are well known in adults, and recorded cases of manganese deficiency are very rare. Therefore, it appears that humans get adequate amounts of manganese from their diets. Children are not likely to be exposed to toxic amounts of manganese in the diet. However, manganese can be absorbed in higher-than-usual amounts if the diet is low in iron. Therefore, it is very important to provide your child with a well-balanced diet. The Food and Nutrition Board of the National Research Council (NRC) has not established a Recommended Daily Allowance for manganese because too little is known about the dietary requirements of this trace element. However, an Estimated Safe and Adequate Daily Dietary Intake (ESADDI) for manganese has been estimated as 0.3–0.6 mg/day for infants from birth to 6 months, 0.6–1 mg/day for infants aged 6 months to 1 year, 1–1.5 mg/day for children aged 1–3 years, 1–2 mg/day for children aged 4–10 years of age, and 2–5 mg/day for children aged 10 years to adult.

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1.8 Is there a medical test to determine whether I have been exposed to manganese?

Several tests are available to measure manganese in blood, urine, hair, or feces. Because manganese is a normal part of the body, some is always found in tissues or fluids. Concentrations in blood, urine, hair, or feces are often found to be higher than average in groups of people exposed to higher-than-usual levels of manganese. Because the levels in different people can vary widely, these methods are not very reliable to determine whether a single person has been exposed to higher-than-usual levels. However, blood or urine levels in groups of people who have been exposed to higher-than-usual amounts are useful indicators of exposure when compared with reference levels from people who have not been exposed. The normal range of manganese levels in blood is 4–14 µg/L, 0.97–1.07 µg/L in urine, and 0.15–2.65 µg/L in serum (the fluid portion of the blood). Because excess manganese is usually removed from the body within a few days, past exposures are difficult to measure with common laboratory tests.

A medical test known as magnetic resonance imaging, or MRI, can detect the presence of increased amounts of manganese in the brain. This test has been very useful in determining whether people have accumulated higher than usual amounts of manganese in the body. This tool is often used when a person is

showing severe signs of manganese toxicity, as in manganism, or in other diseases that affect the brain, such as Parkinson's disease or Alzheimer's disease. The results must be used along with a complete medical history because other diseases affecting the brain can cause abnormal MRI scans. MRI is not useful, though, in determining the source of increased exposure or in establishing the amount of manganese that you might have been exposed to. Furthermore, MRI analysis will not necessarily detect manganese in the brain after exposure to the metal has ceased. Most people who have increased manganese concentrations in their body do so as a result of increased exposure to the compound (most often by work exposures); others have increased levels because they are unable to clear manganese from their bodies. A medical test would not be able to tell the difference between these two possibilities, and further testing would be needed to find the cause of increased exposure. Also, exposure to high levels of manganese (such as in the case of manganese miners) may cause a permanent effect on the brain, depending on the length and level of manganese exposure.

Chapters 2 and 6 of the toxicological profile have more information on how manganese can be measured in exposed humans.

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1.9 What recommendations has the federal government made to protect human health?

The federal government develops regulations and recommendations to protect public health. Regulations can be enforced by law. Federal agencies that develop regulations for toxic substances include the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), and the Food and Drug Administration (FDA). Recommendations provide valuable guidelines to protect public health but cannot be enforced by law. Federal organizations that develop recommendations for toxic substances include the Agency for Toxic Substances and Disease Registry (ATSDR) and the National Institute for Occupational Safety and Health (NIOSH).

Regulations and recommendations can be expressed in not-to-exceed levels in air, water, soil, or food that are usually based on levels that affect animals; then they are adjusted to help protect people. Sometimes these not-to-exceed levels differ among federal organizations because of different exposure times (an 8-hour workday or a 24-hour day), the use of different animal studies, or other factors.

Recommendations and regulations are also periodically updated as more information becomes available. For the most current information, check with the federal agency or organization that provides it. Some regulations and recommendations for

manganese include the following:

To avoid staining clothes or plumbing fixtures, the EPA recommends that the concentration of manganese in drinking water be not more than 0.05 ppm. FDA has set the same level for bottled water. This concentration is believed to be more than adequate to protect human health. The EPA has also established rules that set limits on the amount of manganese that factories can dump into water. EPA requires factories that use or produce manganese to report how much they dump in the environment. OSHA has set a limit of 5 mg/m³ for the average amount of manganese in workplace air over an 8-hour workday .

Manganese is an essential element of the diet. Like a number of metals (for example, chromium, copper, iron, and zinc) manganese is important in the normal functioning of the body. Therefore, both too little or too much can be harmful. The Food and Nutrition Board of the National Research Council has set an ESADDI for manganese. The ESADDI for manganese ranges from 0.3 up to 5 mg/day for different age groups (1–10 mg/day is about the amount found in the diet of an adult; ;).

Chapter 7 of the toxicological profile has more information on governmental rules regarding manganese.

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1.10 Where can I get more information?

If you have any more questions or concerns, please contact your community or state health or environmental quality department or:

Agency for Toxic Substances and Disease Registry
Division of Toxicology
1600 Clifton Road NE, Mailstop F-32
Atlanta, GA 30333

Information line and technical assistance:

Phone: 888-422-8737
FAX: (770)-488-4178

ATSDR can also tell you the location of occupational and environmental health clinics. These clinics specialize in recognizing, evaluating, and treating illnesses resulting from exposure to hazardous substances.

To order toxicological profiles, contact:

National Technical Information Service
5285 Port Royal Road

Springfield, VA 22161
Phone: 800-553-6847 or 703-605-6000

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References

Agency for Toxic Substances and Disease Registry (ATSDR).
2000. Toxicological profile for manganese. *Update*. Atlanta, GA:
U.S. Department of Health and Human Services, Public Health
Service.

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ATSDR Information Center / ATSDRIC@cdc.gov / 1-888-422-8737

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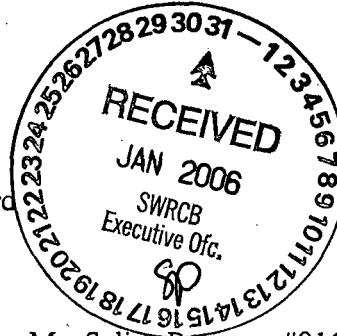
Public Works

Storm Water Protection Program

697
133

January 31, 2006

Mr. Craig Wilson
Chief Water Quality Assessment Unit
State of California Water Resources Control Board
P.O. Box 100
Sacramento, CA 95812-0100



303 (d) Deadline:
1/31/06

Original sent via USPS, copy sent via Fax attention Ms. Selica Porter to #916-341-5463 and via email to commentletters@waterboards.ca.gov attention Ms. Selica Porter

Re: Comments on the 2006 draft 303(d) list

Dear Mr. Craig Wilson:

On behalf of the City of Carlsbad (City), please accept the information contained in this letter as formal comment to the 2006 draft 303(d) list currently posted on your website at http://www.waterboards.ca.gov/tmdl/303d_update.html. Thank you for the opportunity to submit comments and we look forward to your thorough review.

This letter is formatted to provide you comments in the following Sections:

1. Each listing within the City of Carlsbad's jurisdictional boundaries;
2. Four listings with incomplete location information that are not identifiable as being within the City's jurisdiction or not; and
3. Submission of documents supporting the de-listing of a previously listed section of the Pacific Ocean Shoreline, Buena Vista Creek HA, Calwater Watershed 90421000, along the coast of the City, already submitted to the local Region 9 Regional Water Quality Control Board staff, attention Ms. Julie Chan.

Section 1: Comments on Listings within the City's Jurisdiction

- Agua Hedionda Creek

GPS Location = 33.14887 - 117.29758

Matrix = water

Contaminant = manganese, selenium, sulfates

Comments: The water quality objectives used for finding exceedances and therefore listing manganese and sulfates at this location are from the Basin Plan and are secondary drinking water standards. Despite Agua Hedionda Creek being designated as a beneficial use for Municipal and Domestic water, it is not used as a Municipal Domestic Drinking water source and therefore secondary drinking water standards are an incorrect standard to apply for finding exceedances. We have no comment on selenium.



- San Marcos Creek

Location = GPS not given - one station in San Marcos Creek 3, jurisdiction not given

Matrix = sediment

Contaminant = sediment toxicity

Comments: The State of California has not identified a pollutant for this proposed listing in accordance with Section 6.1.3 of the Listing Policy. In addition, the specific location of the samples within San Marcos Creek is not identified, which may conflict with the policy to determine whether those samples are spatially and temporally representative of the water quality in the water segment.

- San Marcos Creek

Location = GPS not available, one station in San Marcos Creek, jurisdiction unclear

Matrix = water

Contaminant = DDE

Comments: Since DDE is primarily a breakdown product of DDT, this is primarily a legacy pollutant that is being addressed. The purpose of the 303(d) listings is to identify waters that do not meet applicable water quality standards with technology-based controls alone and prioritize such waters for the purposes of developing TMDLs. There appears to be little benefit in developing a TMDL for a water segment due to a legacy pollutant which does not have any new or current sources associated with it for determining load allocations.

Section 3: Formal request to de-list Pacific Ocean Shoreline, Buena Vista Creek HA, Calwater Watershed 90421000

In October 2005, the City reviewed files from the 1998 303(d) listings with the Region 9 Regional Water Quality Control Board staff. It appeared that the 1998 listing for the Pacific Ocean Shoreline site in Carlsbad was due to County of San Diego signs posted at the beach for one or two sewage spills in the area (one in 1996 and one in 1997). This site should therefore be de-listed because the previous listing was faulty. It appears that it was listed purely on anecdotal information without any water quality sampling data.

In addition, included with this letter is an attachment in application of de-listing this segment of the Pacific Ocean, consistent with the 2004 Water Quality Control Policy for California's Clean Water Act Section 303(d) List. Data was collected and analyzed from 1998-2004, from year round sampling by both the County of San Diego Department of Environmental Health and the City of Carlsbad sampling programs. These documents clearly show the actual number of exceedances for Enterococci, Total Coliform, and Fecal Coliform are far below the allowable number of exceedances, therefore supporting the de-listing of this segment. The attachment contains 4 pages:

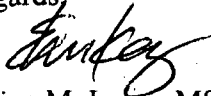
- a) A Word document serving as a cover sheet and Certification;

- b) A Word document listing the general site designation and a data summary table showing the calculation results;
- c) A JPEG aerial photo/map showing the sampling locations along the listed beach segment; and
- d) An Excel spreadsheet containing two pages – a summary table and the full data set used in the calculations.

In conclusion, we respectfully request that the listings in Sections 1 and 2 be removed from the 2006 list for further review and/or data collection for the next round of listings. We also request that you accept the attached application for de-listing of Pacific Ocean Shoreline, Buena Vista Creek HA, Calwater Watershed 90421000 and de-list this water body.

Thank you again for the opportunity to comment on this draft document. We appreciate the amount of work that your agency is doing to help protect water quality in our region. If you have any questions or need further clarification, please do not hesitate to contact me at 760-602-7582.

Regards,



Elaine M. Lukey MS, CPEA
Environmental Programs Manager, City of Carlsbad

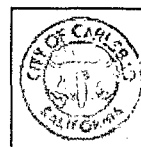
Enc: Application for de-listing of Pacific Ocean Shoreline, Buena Vista Creek HA, Calwater Watershed 90421000

CC: Mr. Ray Patchett, City Manager, City of Carlsbad
Mr. Glenn Pruum, Public Works Director, City of Carlsbad
Ms. Linda Kermott, Public Works Manager, City of Carlsbad
Ms. Julie Chan, Region 9 Regional Water Quality Control Board, 9174 Sky Park Court, San Diego, CA 92123

Attachment

Application for de-listing of Pacific Ocean Shoreline, Buena Vista Creek HA, Calwater
Watershed 90421000

City of Carlsbad
Environmental Programs
1635 Faraday Avenue
Carlsbad, CA 92008
Phone: 760 602 4646



General contact information:

Submitting body: City of Carlsbad, Public Works, Environmental Programs

Contact person: Elaine Lukey

Phone number: 760 602 7582

Email address: eluke@ci.carlsbad.ca.us

Mailing address: 1635 Faraday Avenue, Carlsbad, CA 92008

Data certification:

Persons certifying accuracy of data/information (including qualification):

County of San Diego: Clay Clifton, Recreational Water Program

Coordinator, Department of Environmental Health: State of CA Registered
Environmental Health Specialist.

City of Carlsbad: Elaine Lukey, Sr. Environmental Specialist,

Environmental Programs Department: Masters in Science - Environmental Health
Science and Policy, BEAC Certified Professional Environmental Auditor – EMS.

Data presented in this submission:

Electronic spreadsheets using the following abbreviations:

CoC: City of Carlsbad, Public Works Dept

DEH – Dept of Environmental Health, County of San Diego

N/A: Not applicable

RWQCB – Recreational water quality control board

QA: Quality assurance

QC: Quality control

Certification statement:

These data present complete and full records of water quality monitoring undertaken by the Department of Environmental health, County of San Diego and the Public Works Department, City of Carlsbad from April 1999 – October 2004. All samples were collected and processed according to Standard Methods using the most probable number (MPN) technique (unless stated otherwise). Analyses were undertaken by certified laboratories under strict quality control. Data transcription and statistical analyses have been performed in accordance with Sections 3 and 4 of the California Water Code, Section 303 (d).

Signed: _____

A handwritten signature in black ink, appearing to read "Elukey", is written over a horizontal line.

Date: _____

1-31-06

General information regarding water body

Region: 9, San Diego

Type: C

Name: Pacific Ocean Shoreline, Buena Vista Creek HA

Calwater Watershed: 90421000

Pollutant/Stressor: Bacteria indicators

Potential Sources: Nonpoint/Point Source

TMDL Priority: Low

Estimated Size affected: 1.2 miles

Description: Impairment located at Buena Vista, Carlsbad City Beach at Carlsbad Village drive, Carlsbad State Beach at Pine.

Water Quality Standards:

Indicator	Standard
Enterococci	104 MPN/100 ml
Fecal Coliform	400 MPN/100 ml
Total Coliform	10,000 MPN/100 ml

Summary of data:

Data collection dates: 1998 - 2004

Collection seasonal or year round: year round

Source or reference of data: San Diego County Dept of Environmental Health and City of Carlsbad Public Works

Quality assurance assessment: QA confirmed (see attached cover letter with sign-off)

Sample site	Total sample number	Exceedances (based on WQ standard)		
		Enterococci	Fecal coliforms	Total coliforms
Tamarack	191	1	1	0
Pine Avenue	91	0	0	0
Carlsbad Village Drive	179	0	0	0
Buena Vista	232	14	5	1

Please see attached map of sample site locations

Conclusion:

Measured exceedances support rejection of the null hypothesis as presented in Table 4.2 of the September 2004 Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List.



Buena Vista

Carlsbad Village Dr.

Pine Ave.

Tamarack Ave.

Beach Sample Sites

Buena Vista, Carlsbad Village Dr.,
Pine Ave., Tamarack Ave



NOT TO SCALE

Summary of Data Table with Exceedances
 Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

	Permitted exceedances	Total sample number	actual exceedances		
			Entero	FC	TC
Tamarack	< about 26	191	1	1	0
Pine Ave	<15	91	0	0	0
Carlsbad Village Drive	<19	179	0	0	0
Buena Vista	< about 37	232	14	5	1

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

SiteID	Location	Beach Name	Sample Date	Sample Time	Analysis	Method	Qualifier	Result	Units	Lab	Distance	Direction	Sampler
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/02		Enterococcus	IDX	NS	0	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Enterococcus	MF	=	1	CFU/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/16/03	9:40	Enterococcus	MF	<	1	CFU/100ml	EN	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Enterococcus	ENTER	<	10	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/28/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/26/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/2/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/9/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/16/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/23/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/30/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/13/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/20/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/28/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/12/99		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/18/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/25/99		Enterococcus	MF	<	10	CFU/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Enterococcus	IDX	=	10	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Enterococcus	IDX	=	10	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Enterococcus	MTF	=	10	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Enterococcus	MTF	<	10	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Enterococcus	MTF	<	10	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/15/00		Enterococcus	MTF	<	10	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/3/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/10/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/17/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/24/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/1/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/8/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/22/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/30/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/5/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/12/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/19/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/8/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/10/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/17/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/24/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/31/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/7/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/14/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/21/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/31/00	Enterococcus	MTF	=	10	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/5/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/11/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/26/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/2/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/23/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/6/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/2/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/01	Enterococcus	MTF	<	10	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/16/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/30/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/7/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/14/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/21/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/29/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/11/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/18/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Enterococcus	MTF	<	10	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Enterococcus	MTF	<	10	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/2/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/10/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/16/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/30/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/6/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/13/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/20/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Enterococcus	MTF	<	10	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Enterococcus	MTF	<	10	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/12/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/19/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/24/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/1/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/15/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/22/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/8/02	11:15	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/15/02	11:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/6/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/13/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/20/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/10/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/17/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/1/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/8/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/5/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/12/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/19/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/26/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/10/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/16/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/23/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/30/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/14/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/21/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/1/03	10:43	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/7/03	11:26	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/21/03	12:25	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/28/03	10:58	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/6/03	11:15	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/12/03	12:20	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/19/03	13:32	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/27/03	13:16	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/2/03	10:50	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/9/03	11:20	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/03	10:59	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/03	11:31	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/30/03	10:36	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/7/03	11:28	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:17	Enterococcus	IDX	<	10	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:20	Enterococcus	IDX	=	10	MPN/100ml	OC	150	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/03	11:10	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/03	10:55	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/03	11:35	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/03	9:24	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/03	8:35	Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/03	8:33	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH

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Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/2/03	12:18	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/03	8:00	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/03	8:47	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/03	8:18	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/03	10:38	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/6/03	10:19	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/03	10:35	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/03	8:25	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:46	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/8/04	11:00	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/04	8:30	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/20/04	8:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/04	8:30	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/3/04	8:35	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/10/04	9:40	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/17/04	8:45	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/04	8:20	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/1/04	7:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/7/04	10:05	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/04	9:40	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/6/04	8:45	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/04	8:59	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/04	9:32	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/04	10:05	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/04	8:25	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/04	9:51	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/04	8:15	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/24/04	11:00	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/1/04	9:00	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/04	9:05	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/04	8:25	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/04	9:05	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/04	8:52	Enterococcus	Enterolert	=	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/04	10:50	Enterococcus	Enterolert	=	10	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/04	9:50	Enterococcus	Enterolert	=	10	MPN/100ml	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99		Enterococcus	IDX	=	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Enterococcus	IDX	=	20	MPN/100ml	PHL	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/15/00		Enterococcus	IDX	=	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/2/02	11:35	Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Enterococcus	MF	=	20	CFU/100ml	OC	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/29/02		Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/02		Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	14:00	Enterococcus	IDX	=	20	MPN/100ml	PHL	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/03	8:35	Enterococcus	IDX	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/23/04	7:55	Enterococcus	Enterolert	=	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/2/00		Enterococcus	IDX	=	31	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/9/01		Enterococcus	IDX	=	31	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/11/00		Enterococcus	MTF	=	42	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/18/00		Enterococcus	IDX	=	42	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Enterococcus	IDX	=	42	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Enterococcus	MF	=	42	CFU/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	13:56	Enterococcus	IDX	=	42	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:50	Enterococcus	IDX	=	42	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99		Enterococcus	IDX	=	53	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Enterococcus	MTF	=	53	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/17/00		Enterococcus	MTF	=	53	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/16/00		Enterococcus	IDX	=	53	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Enterococcus	MTF	=	53	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Enterococcus	MTF	=	64	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Enterococcus	MTF	=	75	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/00		Enterococcus	IDX	=	75	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Enterococcus	MTF	=	87	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Enterococcus	IDX	=	99	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99		Enterococcus	IDX	=	99	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/01		Enterococcus	IDX	=	99	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Enterococcus	IDX	=	124	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/19/02	10:06	Enterococcus	IDEX	=	124	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Enterococcus	MTF	=	137	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/04	10:16	Enterococcus	Enterolert	=	178	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Enterococcus	IDX	=	344	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/04	10:10	Enterococcus	Enterolert	=	478	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99		Enterococcus	IDX	=	560	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Enterococcus	IDX	=	624	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Enterococcus	IDX	=	697	MPN/100ml	PHL	50	R	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Enterococcus	IDX	=	831	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Enterococcus	IDX	=	885	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/16/03	9:15	Enterococcus	IDX	=	945	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/00		Enterococcus	IDX	=	1013	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/6/00		Enterococcus	IDX	>	2005	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/28/99		Fecal Coliform	MTF	=	0	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/02		Fecal Coliform	MTF	NS	0	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Fecal Coliform	MTF	E	2	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Fecal Coliform	MTF	E	2	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Fecal Coliform	MTF	<	2	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Fecal Coliform	MTF	<	2	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Fecal Coliform	MTF	<	2	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Fecal Coliform	MTF	E	4	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/01		Fecal Coliform	MTF	=	4	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Fecal Coliform	MTF	=	4	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:20	Fecal Coliform	MTF	=	4	MPN/100ml	OC	150	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/31/00		Fecal Coliform	MTF	=	6	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Fecal Coliform	MTF	=	8	MPN/100ml	OC	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:17	Fecal Coliform	MTF	=	8	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Fecal Coliform	MTF	=	9	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/16/03	9:40	Fecal Coliform	MF	=	9	CFU/100ml	EN	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Fecal Coliform	MTF	=	11	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/26/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/2/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/9/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/16/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/23/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/30/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/13/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/20/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/28/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/12/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/18/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/25/99	Fecal Coliform	MF	=	20	CFU/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00	Fecal Coliform	MTF	<	20	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00	Fecal Coliform	MTF	<	20	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00	Fecal Coliform	MTF	<	20	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00	Fecal Coliform	MTF	=	20	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/3/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/10/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/24/00	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/1/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/8/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/15/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/22/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/5/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/12/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/19/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/15/01		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/2/02	11:35	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/8/02	11:15	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/6/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/13/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/20/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/3/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/10/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/17/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/1/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/8/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/5/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/12/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/19/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/26/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/3/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/16/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/23/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/30/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/14/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/21/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	14:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/1/03	10:43	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/7/03	11:26	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/21/03	12:25	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/28/03	10:58	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/6/03	11:15	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/12/03	12:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/19/03	13:32	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/27/03	13:16	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/2/03	10:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/9/03	11:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/03	10:59	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/03	11:31	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/30/03	10:36	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/7/03	11:28	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/03	8:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/03	10:55	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/03	11:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/03	9:24	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/03	8:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/03	8:33	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/03	8:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/03	8:47	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/03	8:18	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/03	10:38	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/6/03	10:19	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/03	10:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/03	8:25	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:46	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/8/04	11:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/04	8:30	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/20/04	8:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/04	8:30	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/3/04	8:35	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/10/04	9:40	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/17/04	8:45	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/04	8:20	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/1/04	7:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/7/04	10:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/04	9:40	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/6/04	8:45	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/04	8:59	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/04	9:32	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/04	10:05	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/04	8:25	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/04	9:51	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/04	8:15	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/24/04	11:00	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/1/04	9:00	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/04	9:05	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/04	8:25	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/04	9:05	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/04	8:52	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/04	10:50	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/04	9:50	Fecal Coliform	MTF	<	20	MPN/100ml	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Fecal Coliform	MTF	=	30	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Fecal Coliform	MTF	=	40	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/15/00		Fecal Coliform	MTF	=	40	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/17/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/30/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/16/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/2/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/01		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/24/01		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/22/01		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/15/02	11:00	Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/03	11:10	Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/23/04	7:55	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	40	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Fecal Coliform	MTF	=	50	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Fecal Coliform	MTF	=	70	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/11/00		Fecal Coliform	MTF	=	70	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/01		Fecal Coliform	MTF	=	70	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/2/03	12:18	Fecal Coliform	MTF	=	70	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/2/00		Fecal Coliform	MTF	=	80	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/01		Fecal Coliform	MTF	=	80	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	13:56	Fecal Coliform	MTF	=	80	MPN/100ml	PHL	75	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Fecal Coliform	MTF	=	110	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Fecal Coliform	MTF	=	110	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Fecal Coliform	MTF	=	130	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/18/00		Fecal Coliform	MTF	=	130	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/16/03	9:15	Fecal Coliform	MTF	=	130	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/17/00		Fecal Coliform	MTF	=	170	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00		Fecal Coliform	MTF	<	200	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Fecal Coliform	MTF	=	230	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Fecal Coliform	MTF	=	230	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Fecal Coliform	MTF	=	240	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Fecal Coliform	MTF	=	300	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Fecal Coliform	MTF	=	300	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/19/02	10:06	Fecal Coliform	MTF	=	300	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Fecal Coliform	MTF	=	500	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/00		Fecal Coliform	MTF	=	500	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/9/01		Fecal Coliform	MTF	=	500	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/04	10:16	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	500	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/04	10:10	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	2400	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/02		Total Coliform	MTF	NS	0	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Total Coliform	MTF	E	2	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Total Coliform	MTF	E	2	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Total Coliform	MTF	=	2	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/7/00		Total Coliform	MTF	E	4	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/01		Total Coliform	MTF	=	4	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Total Coliform	MTF	=	4	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Total Coliform	MTF	=	11	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/31/00		Total Coliform	MTF	=	12	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/16/03	9:40	Total Coliform	MF	=	12	CFU/100ml	EN	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Total Coliform	MTF	=	17	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Total Coliform	MTF	=	17	MPN/100ml	OC	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/5/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/28/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/26/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/2/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/9/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/16/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/23/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/30/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/13/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/20/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/28/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/12/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/18/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/25/99	Total Coliform	MF	=	20	CFU/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99	Total Coliform	MTF	=	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99	Total Coliform	MTF	=	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Total Coliform	MTF	<	20	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/12/99	Total Coliform	MTF	=	20	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00	Total Coliform	MTF	=	20	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/24/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/1/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/8/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/22/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/5/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/12/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/19/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/26/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/6/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/8/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/10/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/17/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/24/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/31/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/3/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/10/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/17/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/1/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/8/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/29/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/5/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/12/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/19/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/26/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/3/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/10/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/16/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/23/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/30/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/14/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/21/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/1/03	10:43	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/7/03	11:26	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/21/03	12:25	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/28/03	10:58	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/6/03	11:15	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/12/03	12:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/19/03	13:32	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/27/03	13:16	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/2/03	10:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/9/03	11:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/03	10:59	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/24/03	11:31	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/30/03	10:36	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/7/03	11:28	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/03	8:35	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/03	10:55	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/03	11:35	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/03	9:24	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/03	8:35	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/03	8:33	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/03	8:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/03	8:47	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/03	8:18	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/03	10:38	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/6/03	10:19	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/03	10:35	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/03	8:25	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:46	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/8/04	11:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/04	8:30	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/20/04	8:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/26/04	8:30	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/3/04	8:35	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/10/04	9:40	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/17/04	8:45	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/24/04	8:20	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/1/04	7:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/7/04	10:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/16/04	9:40	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:20	Total Coliform	MTF	=	30	MPN/100ml	OC	150	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Total Coliform	MTF	=	40	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Total Coliform	MTF	=	40	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00		Total Coliform	MTF	=	40	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/3/00		Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/23/00		Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/6/00		Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/27/01		Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/24/01		Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/22/01		Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/02		Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/03	11:10	Total Coliform	MTF	=	40	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/7/03	8:50	Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00		Total Coliform	MTF	=	60	MPN/100ml	OC	100	L	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/2/03	12:18	Total Coliform	MTF	=	70	MPN/100ml	PHL	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/30/00		Total Coliform	MTF	=	80	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/01		Total Coliform	MTF	=	80	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/2/00		Total Coliform	MTF	=	110	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00		Total Coliform	MTF	=	110	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Total Coliform	MTF	=	110	MPN/100ml	PHL	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/15/00		Total Coliform	MTF	=	130	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/8/99		Total Coliform	MTF	=	140	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/2/00		Total Coliform	MTF	=	140	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Total Coliform	MTF	=	170	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/10/00		Total Coliform	MTF	=	170	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/01		Total Coliform	MTF	=	170	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/18/00		Total Coliform	MTF	=	220	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/15/02	11:00	Total Coliform	MTF	=	220	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/25/02		Total Coliform	MTF	=	220	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/4/99		Total Coliform	MTF	=	230	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Total Coliform	MTF	=	230	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00		Total Coliform	MTF	=	230	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	5/15/00		Total Coliform	MTF	=	230	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/16/00		Total Coliform	MTF	=	230	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/2/00		Total Coliform	MTF	=	230	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	14:00	Total Coliform	MTF	=	230	MPN/100ml	PHL	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/16/03	9:15	Total Coliform	MTF	=	230	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/12/01		Total Coliform	MTF	=	240	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Total Coliform	MTF	=	300	MPN/100ml	PHL	50	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/4/00		Total Coliform	MTF	=	300	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/20/00		Total Coliform	MTF	=	300	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	3/21/00		Total Coliform	MTF	=	300	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/17/00		Total Coliform	MTF	=	300	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Total Coliform	MTF	=	300	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00		Total Coliform	MTF	=	400	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Total Coliform	MTF	=	500	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/3/99		Total Coliform	MTF	=	500	MPN/100ml	PHL	50	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/1/00		Total Coliform	MTF	=	500	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/15/03	14:17	Total Coliform	MTF	=	500	MPN/100ml	OC	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	1/31/00		Total Coliform	MTF	=	700	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/28/01		Total Coliform	MTF	=	900	MPN/100ml	OC	0	M	DEH

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EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Total Coliform	MTF	=	900	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/5/99		Total Coliform	MTF	=	1300	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Total Coliform	MTF	=	1300	MPN/100ml	OC	100	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	11/13/01		Total Coliform	MTF	=	1600	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/11/00		Total Coliform	MTF	=	1700	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Total Coliform	MTF	=	1700	MPN/100ml	OC	100	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/23/02	13:56	Total Coliform	MTF	=	1700	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/17/00		Total Coliform	MTF	=	2200	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/9/00		Total Coliform	MTF	=	2400	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	12/19/02	10:06	Total Coliform	MTF	=	2400	MPN/100ml	OC	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	2/14/00		Total Coliform	MTF	=	3000	MPN/100ml	OC	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/31/00		Total Coliform	MTF	=	3000	MPN/100ml	PHL	0	M	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	4/9/01		Total Coliform	MTF	=	5000	MPN/100ml	PHL	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/6/04	8:45	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/14/04	8:59	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/21/04	9:32	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	7/28/04	10:05	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/4/04	8:25	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/11/04	9:51	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/18/04	8:15	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	8/24/04	11:00	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/1/04	9:00	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/8/04	9:05	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/15/04	8:25	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/22/04	9:05	Total Coliform	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	9/29/04	8:52	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/5/04	10:50	Total Coliform	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/13/04	9:50	Total Coliform	MTF	<	20	MPN/100ml	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	6/23/04	7:55	Total Coliform	MTF (APHA 9221 B)	=	130	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/28/04	10:16	Total Coliform	MTF (APHA 9221 B)	=	3000	MPN/100mL	SH	75	L	DEH
EH-480	Buena Vista Lagoon outlet	Carlsbad municipal beach	10/20/04	10:10	Total Coliform	MTF (APHA 9221 B)	=	16000	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Enterococcus	SM9230C	None	2	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Enterococcus	MF	=	2	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/04	10:05	Enterococcus	SM9230C	None	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/28/04	11:40	Enterococcus	SM9230C	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/14/04	10:10	Enterococcus	SM9230C	None	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/04	9:45	Enterococcus	SM9230C	None	2	CFU/100ml	EWV	75	L	COC

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	9:56	Enterococcus	MF	<	2	CFU/100mL	EW	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	10:05	Enterococcus	SM9230C	None	2	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Enterococcus	MF	<	2	CFU/100mL	EW	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Enterococcus	SM9230C	None	2	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Enterococcus	Enterolert	<	2	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Enterococcus	SM9230C	<	2	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Enterococcus	SM9230C	None	4	CFU/100ml	EW	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Enterococcus	MTF	=	4	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Enterococcus	MTF	<	4	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Enterococcus	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Enterococcus	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Enterococcus	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/27/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/3/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/10/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/17/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/24/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/1/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/8/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/15/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/22/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/30/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/12/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/19/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/10/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/17/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/24/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/1/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/7/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/14/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/28/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/5/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/11/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/18/00		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/26/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/16/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/23/00		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/2/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/9/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/16/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/30/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/7/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/21/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/29/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/11/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/18/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/25/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/2/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/10/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/23/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/30/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/6/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/20/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/27/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/12/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/19/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/24/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/1/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/15/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/22/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/31/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/2/02	11:55	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/8/02	11:30	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/15/02	11:15	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/6/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/13/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/10/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/8/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/15/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/19/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/26/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/16/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/30/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/14/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/21/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/1/03	10:57	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/2/03	11:16	Enterococcus	SM9223	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/16/03	9:25	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	14:10	Enterococcus	SM9223	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	12:35	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/03	11:09	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/6/03	11:28	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/7/03	12:30	Enterococcus	SM9223	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/12/03	12:29	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	11:40	Enterococcus	SM9223	None	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	10:33	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/27/03	13:30	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/2/03	10:39	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/03	14:10	Enterococcus	SM9223	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/9/03	11:31	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/03	10:31	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/03	11:25	Enterococcus	SM9223	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/03	11:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:05	Enterococcus	SM9230C	<	10	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:10	Enterococcus	MTF	<	10	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/7/03	8:10	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/21/03	8:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/4/03	8:28	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/03	8:48	Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	14:20	Enterococcus	SM9230C	<	10	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	2:20	Enterococcus	MF	=	10	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/18/03	8:53	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/27/03	8:40	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/2/03	12:25	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/8/03	8:13	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/03	8:55	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/22/03	8:31	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/03	10:50	Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/6/03	10:30	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/13/03	10:47	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/20/03	8:30	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/8/04	11:10	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/12/04	8:45	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/26/04	8:43	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/3/04	8:46	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/10/04	9:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/17/04	9:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/24/04	8:27	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/7/04	10:13	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/18/04	10:03	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/25/04	9:55	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/2/04	9:45	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/04	10:50	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/23/04	10:19	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/30/04	8:05	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/6/04	10:12	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/13/04	10:00	Enterococcus	Enterolert	<	10	MPN/100mL	SH	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/1/04	10:15	Enterococcus	Enterolert	<	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/04	8:55	Enterococcus	Enterolert	=	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/04	8:40	Enterococcus	Enterolert	=	10	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/5/00		Enterococcus	IDX	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/26/00		Enterococcus	IDX	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/21/00		Enterococcus	IDX	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/5/02		Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/10/02		Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	8:04	Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Enterococcus	SM9230C	<	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Enterococcus	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Enterococcus	SM9230C	<	20	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Enterococcus	SM9230C	<	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Enterococcus	MTF	<	20	MPN/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/04	8:40	Enterococcus	Enterolert	=	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/7/04	9:20	Enterococcus	Enterolert	=	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/6/00		Enterococcus	IDX	=	31	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/2/00		Enterococcus	IDX	=	31	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/20/02		Enterococcus	IDX	=	31	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/1/02		Enterococcus	IDX	=	31	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/24/04	11:11	Enterococcus	Enterolert	=	42	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/31/00		Enterococcus	IDX	=	53	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/2/03	11:16	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	14:10	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/7/03	12:30	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	11:40	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/03	14:10	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/03	11:25	Fecal Coliform	SM9221E	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/28/04	11:40	Fecal Coliform	SM9222D	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/14/04	10:10	Fecal Coliform	SM9222D	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Fecal Coliform	SM9222D	None	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Fecal Coliform	SM9222D	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Fecal Coliform	MF	<	2	CFU/100mL	EW	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	2	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Fecal Coliform	MTF	<	4	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Fecal Coliform	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Fecal Coliform	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Fecal Coliform	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/04	10:05	Fecal Coliform	SM9222D	None	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	10:05	Fecal Coliform	SM9222D	None	6	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	9:56	Fecal Coliform	MF	<	6	CFU/100mL	EW	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Fecal Coliform	SM9222D	None	7	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Fecal Coliform	MF	=	7	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	14:20	Fecal Coliform	SM9222D	None	10	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	2:20	Fecal Coliform	MF	=	10	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/04	9:45	Fecal Coliform	SM9222D	None	16	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/27/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/3/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/10/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/17/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/24/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/1/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/8/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/15/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/22/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/30/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/5/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/12/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/19/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/26/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/6/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/10/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/17/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/24/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/15/01		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/22/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/31/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/2/02	11:55	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/8/02	11:30	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/15/02	11:15	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/6/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/13/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/20/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/1/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/8/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/15/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/5/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/19/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/26/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/3/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/16/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/30/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/14/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/21/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/1/03	10:57	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/16/03	9:25	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	12:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/03	11:09	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/6/03	11:28	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/12/03	12:29	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	10:33	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/27/03	13:30	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/2/03	10:39	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/9/03	11:31	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/03	11:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:05	Fecal Coliform	SM9222D	<	20	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:10	Fecal Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/7/03	8:10	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/21/03	8:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	8:04	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/4/03	8:28	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/03	8:48	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/18/03	8:53	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/27/03	8:40	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/2/03	12:25	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/8/03	8:13	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Fecal Coliform	SM9222D	<	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Fecal Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/03	8:55	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/22/03	8:31	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/03	10:50	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/6/03	10:30	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/13/03	10:47	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/20/03	8:30	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Fecal Coliform	SM9222D	<	20	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Fecal Coliform	SM9222D	<	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Fecal Coliform	MTF	<	20	MPN/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/8/04	11:10	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/12/04	8:45	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/26/04	8:43	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/3/04	8:46	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/10/04	9:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/17/04	9:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/24/04	8:27	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/7/04	10:13	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/18/04	10:03	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/25/04	9:55	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/2/04	9:45	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/04	10:50	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/23/04	10:19	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/30/04	8:05	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/6/04	10:12	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/13/04	10:00	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/24/04	11:11	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/1/04	10:15	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/04	8:40	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/04	8:55	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/04	8:40	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/7/04	9:20	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/26/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/02		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/03	10:31	Fecal Coliform	MTF	=	40	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/2/00		Fecal Coliform	MTF	=	130	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Fecal Coliform	SM9222D	None	160	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Fecal Coliform	MTF	=	160	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	15:15	Total Coliform	SM9221B	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/7/03	13:40	Total Coliform	SM9221B	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	11:40	Total Coliform	SM9221B	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/03	14:10	Total Coliform	SM9221B	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/03	11:25	Total Coliform	SM9221B	<	2	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/28/04	11:40	Total Coliform	SM9222B	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Total Coliform	SM9222B	<	2	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	2/12/04	10:45	Total Coliform	MTF	=	4	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	3/9/04	10:40	Total Coliform	MF	=	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Total Coliform	SM9222B	<	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/7/04	13:50	Total Coliform	MF	<	4	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/04	10:05	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	COC

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/14/04	10:10	Total Coliform	SM9222B	None	4	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Total Coliform	SM9222B	None	6	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Total Coliform	SM9222B	None	8	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/04	10:55	Total Coliform	MF	=	8	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Total Coliform	SM9222B	None	9	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/03	10:40	Total Coliform	MF	=	9	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	10:05	Total Coliform	SM9222B	None	10	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/04	9:45	Total Coliform	SM9222B	None	18	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/27/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/3/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/10/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/17/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/24/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/1/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/8/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/15/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/22/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/30/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/5/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/12/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/19/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/26/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/6/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/10/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/17/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/24/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/1/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/7/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/14/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/21/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/28/00		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/5/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/11/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/18/00		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/00		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/16/00		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/23/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/17/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/8/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/15/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/29/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/5/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/19/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/26/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/3/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/10/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/16/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/30/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/9/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/14/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/21/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/1/03	10:57	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/21/03	12:35	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/28/03	11:09	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/6/03	11:28	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/12/03	12:29	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/19/03	10:33	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/27/03	13:30	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/2/03	10:39	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/9/03	11:31	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/24/03	11:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:35	Total Coliform	SM9222B	<	20	MPN/100ml	MEC	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/30/03	11:10	Total Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/7/03	8:10	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/21/03	8:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	8:04	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/4/03	8:28	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/03	8:48	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/18/03	8:53	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/27/03	8:40	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/2/03	12:25	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/8/03	8:13	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Total Coliform	SM9222B	<	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/03	14:25	Total Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/03	8:55	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/22/03	8:31	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/03	10:50	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/6/03	10:30	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/13/03	10:47	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Total Coliform	SM9222B	None	20	CFU/100ml	EWV	75	L	COC
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:45	Total Coliform	SM9222B	None	20	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	11/19/03	14:25	Total Coliform	MTF	<	20	MPN/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/8/04	11:10	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/12/04	8:45	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/26/04	8:43	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/3/04	8:46	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/10/04	9:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/17/04	9:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	5/24/04	8:27	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/7/04	10:13	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/18/04	10:03	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	14:20	Total Coliform	SM9222B	None	30	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/12/03	2:20	Total Coliform	MF	=	30	CFU/100ml	EN	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/26/00		Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/3/02		Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/20/03	8:30	Total Coliform	MTF	=	40	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/1/02		Total Coliform	MTF	=	80	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/16/03	9:25	Total Coliform	MTF	=	80	MPN/100ml	PHL	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/2/00		Total Coliform	MTF	=	130	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/16/03	10:31	Total Coliform	MTF	=	170	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Total Coliform	SM9222B	None	252	CFU/100ml	EWV	75	L	D-Max
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/28/03	10:55	Total Coliform	MTF	=	252	MPN/100ml	PRV	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/31/00		Total Coliform	MTF	=	300	MPN/100ml	PHL	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	4/9/01		Total Coliform	MTF	=	1700	MPN/100ml	PHL	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/23/04	13:15	Total Coliforms	MF	<	2	CFU/100mL	EW	75	L	DEH

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EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/9/04	10:25	Total Coliforms	MTF (APHA 9221 B)	=	6	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/11/04	9:56	Total Coliforms	MF	<	10	CFU/100mL	EW	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	6/25/04	9:55	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/2/04	9:45	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/16/04	10:50	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	L	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/23/04	10:19	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	7/30/04	8:05	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/6/04	10:12	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/13/04	10:00	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	0	M	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	8/24/04	11:11	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/1/04	10:15	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/15/04	8:40	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/23/04	8:55	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	9/29/04	8:40	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-475	Carlsbad Village Drive	Carlsbad municipal beach	10/7/04	9:20	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Enterococcus	MF	=	4	CFU/100ml	EN	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Enterococcus	MF	<	4	CFU/100mL	EW	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Enterococcus	SM9230C	<	4	CFU/100ml	EW	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	4/26/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/28/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/26/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/2/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/9/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/16/99		Enterococcus	IDX	=	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/23/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/30/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/13/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/20/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/28/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/12/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/18/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/25/99		Enterococcus	MF	<	10	CFU/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/2/02	12:10	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH

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EH-470	Pine Ave	Carlsbad State Beach	4/15/02	11:15	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/13/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/20/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/10/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/17/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/1/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/8/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/15/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/22/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/5/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/12/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/19/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/26/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/10/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/16/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/23/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/30/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/9/02		Enterococcus	IDX	=	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/14/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/1/03	11:05	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/7/03	12:08	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/28/03	11:19	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/03	11:39	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/12/03	12:44	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/19/03	10:50	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/27/03	13:42	Enterococcus	IDEX	<	10	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/2/03	10:30	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/9/03	11:52	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH

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EH-470	Pine Ave	Carlsbad State Beach	6/16/03	10:20	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/03	11:59	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	13:00	Enterococcus	SM9230C	<	10	MPN/100ml	MEC	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	11:00	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	13:00	Enterococcus	MTF	<	10	MPN/100ml	PRV	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/7/03	8:25	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/21/03	8:10	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/4/03	8:35	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/11/03	8:53	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/18/03	9:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/25/03	8:52	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/2/03	12:38	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/03	8:23	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/15/03	9:10	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/22/03	8:42	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/29/03	10:59	Enterococcus	IDEX	=	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/6/03	10:46	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/13/03	10:56	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/20/03	8:40	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/8/04	11:18	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/12/04	8:56	Enterococcus	IDEX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/26/04	8:52	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/3/04	8:51	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/10/04	10:02	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/17/04	9:08	Enterococcus	IDX	=	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/04	8:38	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/7/04	10:22	Enterococcus	IDX	<	10	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	8:17	Enterococcus	IDX	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Enterococcus	SM9230C	None	20	CFU/100ml	EWV	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Enterococcus	MTF	=	20	MPN/100ml	EN	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/99		Enterococcus	IDX	=	31	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/21/02		Enterococcus	IDX	=	31	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/28/99		Fecal Coliform	MTF	=	0	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Fecal Coliform	SM9222D	<	4	CFU/100ml	EWV	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Fecal Coliform	MF	<	4	CFU/100mL	EW	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Fecal Coliform	SM9222D	None	8	CFU/100ml	EWV	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Fecal Coliform	MF	=	8	CFU/100ml	EN	75	L	DEH

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EH-470	Pine Ave	Carlsbad State Beach	4/26/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/26/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/2/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/16/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/23/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/30/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/13/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/20/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/28/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/12/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/18/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/25/99		Fecal Coliform	MF	=	20	CFU/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/2/02	12:10	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/15/02	11:15	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/13/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/20/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/3/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/17/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/1/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/8/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/15/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/5/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/12/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/19/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/26/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/3/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH

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EH-470	Pine Ave	Carlsbad State Beach	9/10/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/16/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/23/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/30/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/9/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/14/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/21/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/1/03	11:05	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/7/03	12:08	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/28/03	11:19	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/03	11:39	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/12/03	12:44	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/19/03	10:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/27/03	13:42	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/2/03	10:30	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/9/03	11:52	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/16/03	10:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/03	11:59	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	13:00	Fecal Coliform	SM9222D	<	20	MPN/100ml	MEC	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	11:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	13:00	Fecal Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/7/03	8:25	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/21/03	8:10	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	8:17	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/4/03	8:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/11/03	8:53	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/18/03	9:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/25/03	8:52	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/2/03	12:38	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/03	8:23	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/15/03	9:10	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/22/03	8:42	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/29/03	10:59	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/6/03	10:46	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/13/03	10:56	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/20/03	8:40	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH

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EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Fecal Coliform	SM9222D	<	20	CFU/100ml	EWV	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Fecal Coliform	MTF	<	20	MPN/100ml	EN	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/8/04	11:18	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/12/04	8:56	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/26/04	8:52	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/3/04	8:51	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/10/04	10:02	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/17/04	9:08	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/04	8:38	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/7/04	10:22	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/9/99		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/02		Fecal Coliform	MTF	=	130	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Total Coliform	SM9222B	None	8	CFU/100ml	EWV	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	11:25	Total Coliform	MF	=	8	CFU/100ml	EN	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Total Coliform	SM9222B	<	16	CFU/100ml	EWV	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	4/26/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/99		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/28/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/26/99		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/2/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/16/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/23/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/30/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/13/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/20/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/28/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/12/99		Total Coliform	MTF	=	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/18/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/25/99		Total Coliform	MF	=	20	CFU/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/2/02	12:10	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/15/02	11:15	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/29/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH

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EH-470	Pine Ave	Carlsbad State Beach	5/13/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/20/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/3/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/10/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/17/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/1/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/8/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/15/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/29/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/5/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/12/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/19/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/26/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/3/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/10/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/16/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/23/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/30/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/9/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/14/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/21/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/1/03	11:05	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/7/03	12:08	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/28/03	11:19	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/12/03	12:44	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/19/03	10:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/27/03	13:42	Total Coliform	MTF	<	20	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/2/03	10:30	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/9/03	11:52	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/16/03	10:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/03	11:59	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	11:05	Total Coliform	SM9222B	<	20	MPN/100ml	MEC	75	L	D-Max
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	11:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/30/03	13:00	Total Coliform	MTF	<	20	MPN/100ml	PRV	75	L	DEH

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EH-470	Pine Ave	Carlsbad State Beach	7/7/03	8:25	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/21/03	8:10	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	7/28/03	8:17	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/4/03	8:35	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/11/03	8:53	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/18/03	9:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/25/03	8:52	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/2/03	12:38	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/8/03	8:23	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/15/03	9:10	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/22/03	8:42	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	9/29/03	10:59	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/6/03	10:46	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/13/03	10:56	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/20/03	8:40	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Total Coliform	SM9222B	None	20	CFU/100ml	EWV	75	L	COC
EH-470	Pine Ave	Carlsbad State Beach	11/19/03	14:45	Total Coliform	MTF	=	20	MPN/100ml	EN	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/8/04	11:18	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/12/04	8:56	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	4/26/04	8:52	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/3/04	8:51	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/10/04	10:02	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/17/04	9:08	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/24/04	8:38	Total Coliform	MTF	<	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/7/04	10:22	Total Coliform	MTF	=	20	MPN/100ml	PHL	75	R	DEH
EH-470	Pine Ave	Carlsbad State Beach	8/9/99		Total Coliform	MTF	=	40	MPN/100ml	PHL	0	M	DEH
EH-470	Pine Ave	Carlsbad State Beach	5/6/03	11:39	Total Coliform	MTF	=	40	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	6/24/02		Total Coliform	MTF	=	130	MPN/100ml	PHL	75	L	DEH
EH-470	Pine Ave	Carlsbad State Beach	10/5/04	10:45	Total Coliforms	MF	=	16	CFU/100mL	EW	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/24/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/9/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/28/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/26/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/9/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/16/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/23/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/30/99		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	9/8/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/13/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/20/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/28/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/12/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/18/99	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/3/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/10/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/17/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/24/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/1/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/8/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/15/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/22/00	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/30/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/5/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/12/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/19/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/26/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/10/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/17/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/24/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/1/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/7/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/14/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/21/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/28/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/5/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/11/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/18/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/26/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/2/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/16/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/23/00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/01	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	4/9/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/30/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/7/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/14/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/21/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/29/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/11/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/18/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/25/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/2/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/10/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/23/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/6/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/13/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/20/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/27/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/4/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/12/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/19/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/1/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/15/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/22/01		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/01		Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/02	14:20	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/22/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/29/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/20/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/10/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/17/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	7/1/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/8/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/15/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/5/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/12/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/19/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/26/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/3/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/16/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/23/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/30/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/14/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/28/02		Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/1/03	11:20	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/7/03	12:20	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/03	9:35	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/21/03	12:45	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/28/03	11:28	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/03	11:50	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/12/03	12:50	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/19/03	11:03	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/27/03	10:37	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/2/03	9:54	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/9/03		Enterococcus	IDEX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/03	13:13	Enterococcus	IDEX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/03	12:07	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/03	11:20	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/7/03	8:33	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/14/03	8:48	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/03	8:20	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/03	8:24	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/03	8:41	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/11/03	9:06	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/03	9:23	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/25/03	9:02	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/2/03	12:46	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	9/8/03	8:31	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/03	9:20	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/03	8:50	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/03	11:05	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/6/03	10:58	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/03	11:05	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/03	8:50	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/30/03	10:43	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/3/03	9:44	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/14/03	8:49	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/20/03	8:24	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/1/03	8:36	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/15/03	8:55	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/29/03	8:58	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/6/04	11:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/12/04	8:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/26/04	8:45	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/2/04	9:40	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/9/04	8:15	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/17/04	10:30	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/1/04	11:05	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/8/04	10:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/15/04	8:45	Enterococcus	IDX	<	10	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/22/04	9:00	Enterococcus	IDX	<	10	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/5/04	10:38	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/12/04	9:04	Enterococcus	IDEX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/20/04	9:05	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/26/04	8:59	Enterococcus	IDX	=	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/3/04	9:05	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/10/04	10:13	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/17/04	9:16	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/24/04	8:50	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/1/04	8:06	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/7/04	10:27	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/04	9:53	Enterococcus	IDX	<	10	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/23/04	8:05	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/04	8:55	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	7/14/04	9:08	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/04	9:45	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/04	10:15	Enterococcus	Enterolert	=	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/04	8:44	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/11/04	10:02	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/04	8:25	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/24/04	11:23	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/1/04	9:17	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/04	9:18	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/04	8:48	Enterococcus	Enterolert	=	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/04	9:18	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/04	9:02	Enterococcus	Enterolert	<	10	MPN/100ml	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/04	11:00	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/04	10:02	Enterococcus	Enterolert	<	10	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	11:40	Enterococcus	SM9230C	None	12	CFU/100ml	EWV	75	L	D-Max
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	11:40	Enterococcus	MF	=	12	CFU/100ml	EN	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/2/99		Enterococcus	IDX	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/8/02	13:55	Enterococcus	IDX	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/10/02		Enterococcus	IDX	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/04	8:15	Enterococcus	Enterolert	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/02		Enterococcus	IDX	=	31	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/13/02		Enterococcus	IDX	<	31	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/02		Enterococcus	IDX	=	31	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/20/04	8:57	Enterococcus	IDX	=	31	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/25/99		Enterococcus	MF	=	42	CFU/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/00		Enterococcus	IDX	=	42	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/15/02	13:40	Enterococcus	IDX	=	42	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/22/02		Enterococcus	IDX	=	42	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/21/02		Enterococcus	IDX	=	42	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/8/03	8:59	Enterococcus	IDX	=	53	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/23/03	10:30	Enterococcus	IDX	=	64	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/25/03	8:49	Enterococcus	IDX	=	75	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/00		Enterococcus	IDX	=	87	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/04	10:20	Enterococcus	Enterolert	=	1184	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/11/01		Fecal Coliform	MF	=	2	CFU/100ml	EN	0	M	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/12/01		Fecal Coliform	MF	=	4	CFU/100ml	EN	0	M	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/24/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	6/9/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/28/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/26/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/2/99		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/9/99		Fecal Coliform	MTF	>	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/16/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/23/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/30/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/13/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/20/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/28/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/12/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/18/99		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/3/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/10/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/17/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/24/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/1/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/8/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/15/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/22/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/30/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/5/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/12/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/19/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/26/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/10/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/17/00		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/24/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/1/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/7/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/14/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/21/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/28/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	9/5/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/11/00		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/18/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/26/00		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/2/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/16/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/23/00		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/30/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/7/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/14/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/21/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/29/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/4/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/11/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/18/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/25/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/2/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/10/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/23/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/6/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/13/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/20/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/27/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/4/01		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/12/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/19/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/1/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/15/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/22/01		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/01		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/02	13:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	4/8/02	12:55	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/15/02	12:40	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/29/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/13/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/20/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/3/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/17/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/1/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/8/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/15/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/22/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/5/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/12/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/19/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/10/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/16/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/23/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/30/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/14/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/21/02		Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/28/02		Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/1/03	11:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/7/03	12:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/03	9:35	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/21/03	12:45	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/28/03	11:28	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/03	11:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/12/03	12:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/19/03	11:03	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/27/03	10:37	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	6/2/03	9:54	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/03	13:13	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/03	12:07	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/03	11:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/7/03	8:33	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/14/03	8:48	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/03	8:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/03	8:24	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/03	8:41	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/11/03	9:06	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/03	9:23	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/25/03	9:02	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/2/03	12:46	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/03	8:31	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/03	9:20	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/03	8:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/03	11:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/6/03	10:58	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/03	11:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/03	8:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/30/03	10:43	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/3/03	9:44	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/14/03	8:49	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/20/03	8:24	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/25/03	8:49	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/1/03	8:36	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/15/03	8:55	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/23/03	10:30	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/29/03	8:58	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/6/04	11:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/12/04	8:50	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/26/04	8:45	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/2/04	9:40	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/9/04	8:15	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/17/04	10:30	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/1/04	11:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/8/04	10:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	3/15/04	8:45	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/22/04	9:00	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/5/04	10:38	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/12/04	9:04	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/20/04	9:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/26/04	8:59	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/3/04	9:05	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/10/04	10:13	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/17/04	9:16	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/24/04	8:50	Fecal Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/1/04	8:06	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/04	9:53	Fecal Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/23/04	8:05	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/04	8:15	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/04	8:55	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/14/04	9:08	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/04	9:45	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/04	10:15	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/04	8:44	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/11/04	10:02	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/04	8:25	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/24/04	11:23	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/1/04	9:17	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/04	9:18	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/04	8:48	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/04	9:18	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/04	9:02	Fecal Coliform	MTF	<	20	MPN/100ml	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/04	11:00	Fecal Coliform	MTF by EC (APHA 9221 E.1)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/04	10:02	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	11:40	Fecal Coliform	SM9222D	None	25	CFU/100ml	EWV	75	L	D-Max
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	11:40	Fecal Coliform	MF	=	25	CFU/100ml	EN	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/25/99		Fecal Coliform	MF	=	40	CFU/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/00		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/26/02		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/3/02		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/9/03		Fecal Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/7/04	10:27	Fecal Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	12/8/03	8:59	Fecal Coliform	MTF	=	70	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/9/01		Fecal Coliform	MTF	=	80	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/20/04	8:57	Fecal Coliform	MTF	=	80	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/04	10:20	Fecal Coliform	MTF by EC (APHA 9221 E.1)	=	9000	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/11/01		Total Coliform	MF	=	1	CFU/100ml	EN	0	M	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/12/01		Total Coliform	MF	=	8	CFU/100ml	EN	0	M	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	10:40	Total Coliform	SM9222B	None	9	CFU/100ml	EWV	75	L	D-Max
EH-460	Tamarack Av	Carlsbad State Beach	5/24/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/9/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/28/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/26/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/2/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/9/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/16/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/23/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/30/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/13/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/20/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/28/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/99		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/12/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/18/99		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/3/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/10/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/17/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/24/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/1/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/8/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/15/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/22/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/30/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/5/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/12/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/19/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/26/00		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/00		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH

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EH-460	Tamarack Av	Carlsbad State Beach	7/10/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/17/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/24/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/1/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/7/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/14/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/21/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/28/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/5/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/11/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/18/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/26/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/2/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/16/00	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/23/00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/30/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/7/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/14/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/21/01	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/29/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/4/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/11/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/18/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/25/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/2/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/10/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/23/01	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/6/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/13/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/20/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/27/01	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/4/01	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-460	Tamarack Av	Carlsbad State Beach	9/12/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/19/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/1/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/15/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/22/01		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/01		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/2/02	12:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/8/02	11:55	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/29/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/13/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/20/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/3/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/10/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/17/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/1/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/8/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/15/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/22/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/30/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/5/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/12/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/19/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/10/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/16/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/23/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/30/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/9/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/14/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/21/02		Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/28/02		Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/1/03	11:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/7/03	12:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/16/03	9:35	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-460	Tamarack Av	Carlsbad State Beach	4/21/03	12:45	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/28/03	11:28	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/6/03	11:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/12/03	12:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/19/03	11:03	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/27/03	10:37	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/2/03	9:54	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/03	13:13	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/03	12:07	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/03	11:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/7/03	8:33	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/14/03	8:48	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/03	8:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/03	8:24	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/03	8:41	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/11/03	9:06	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/03	9:23	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/25/03	9:02	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/2/03	12:46	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/03	8:31	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/03	9:20	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/03	8:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/03	11:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/6/03	10:58	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/03	11:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/03	8:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/30/03	10:43	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/3/03	9:44	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/14/03	8:49	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/20/03	8:24	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	11/25/03	8:49	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/1/03	8:36	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/15/03	8:55	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/6/04	11:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/12/04	8:50	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/26/04	8:45	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/2/04	9:40	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH

Full Dataset with Exceedances
Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-460	Tamarack Av	Carlsbad State Beach	2/9/04	8:15	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	2/17/04	10:30	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/1/04	11:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/8/04	10:00	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/15/04	8:45	Total Coliform	MTF	=	20	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	3/22/04	9:00	Total Coliform	MTF	=	20	MPN/100ml	PHL	125	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/5/04	10:38	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/12/04	9:04	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/20/04	9:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/26/04	8:59	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/3/04	9:05	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/10/04	10:13	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/17/04	9:16	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	5/24/04	8:50	Total Coliform	MTF	=	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/1/04	8:06	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/16/04	9:53	Total Coliform	MTF	<	20	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/16/03	11:40	Total Coliform	MF	=	36	CFU/100ml	EN	75	L	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/24/02		Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/26/02		Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/3/02		Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/9/03		Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/29/03	8:58	Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/7/04	10:27	Total Coliform	MTF	=	40	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/23/03	10:30	Total Coliform	MTF	=	70	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/25/99		Total Coliform	MF	=	80	CFU/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	1/20/04	8:57	Total Coliform	MTF	=	80	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/9/01		Total Coliform	MTF	=	220	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	4/15/02	11:40	Total Coliform	MTF	=	230	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	12/8/03	8:59	Total Coliform	MTF	=	300	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/31/00		Total Coliform	MTF	=	500	MPN/100ml	PHL	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/23/04	8:05	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	6/30/04	8:15	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/6/04	8:55	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/14/04	9:08	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/21/04	9:45	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	7/28/04	10:15	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/4/04	8:44	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	150	R	DEH

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Data from 1998-2004 collected year round by the County of San Diego DEH and the City of Carlsbad

EH-460	Tamarack Av	Carlsbad State Beach	8/11/04	10:02	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/18/04	8:25	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	8/24/04	11:23	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/1/04	9:17	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/8/04	9:18	Total Coliforms	MTF (APHA 9221 B)	=	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/15/04	8:48	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/22/04	9:18	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	9/29/04	9:02	Total Coliforms	MTF	<	20	MPN/100ml	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/5/04	11:00	Total Coliforms	MTF (APHA 9221 B)	<	20	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/13/04	10:02	Total Coliforms	MTF (APHA 9221 B)	=	80	MPN/100mL	SH	150	R	DEH
EH-460	Tamarack Av	Carlsbad State Beach	10/20/04	10:20	Total Coliforms	MTF (APHA 9221 B)	=	9000	MPN/100mL	SH	150	R	DEH

From: Julie Chan
To: Craig J. Wilson; Jessie Maxfield
Date: 8/22/05 11:42AM
Subject: Re: Sandia Creek Nitrate exceedances

Craig and Jessie,

Cynthia Gorham-Test of our staff reviewed that draft fact sheet for Nitrate in Sandia Creek as you requested. Below is our recommendation.

From what Cynthia found in the data, only Nitrate values were reported for Sandia Creek (907.31). There were no other nitrogen forms or any phosphorus measurements taken.

According to the basin plan, nitrogen concs. shall not exceed phosphorus by more than 10X, which is equivalent to an N:P ratio of 10:1.

Also, in the basin plan, phosphorus concs. in flowing water shall not exceed 0.1 mg/l. Since we don't have any phosphorus values reported we will use the 0.1 mg/l as the guideline.

Therefore, the maximum nitrogen value to consider is $10 * 0.1 \text{ mg/l} = 1.0 \text{ mg/l}$.

All the nitrate values we could find for Sandia Creek exceed the 1.0 mg/l value.

OK?

If you have questions please contact Cynthia (858 467-2957) or me.

Julie Chan
858 627-3926

Please take the time to fill out our electronic customer service survey located at <http://www.arb.ca.gov/calepa/cepacsur.htm>.

CC: Cynthia Gorham-Test

nitrogen & phosphorus Fact sheets.
(exceeding) (not exceeding)

List

(2 out of 4 exceed the WQO (N:P ratio).)

From: Christina Arias
To: Jessie Maxfield
Date: 7/26/05 3:59PM
Subject: fact sheet comments

hi Jessie,

Here are my comments specifically for the bacteria fact sheets. These are not meant to be formal, but rather a framework for discussion points. (We'll be submitting more formal comments to you next month, on all the fact sheets.) I think a conference call between you, Craig, Julie, and me is a great idea. At this time there are some systematic processes that we would like to discuss. Please check your calendars and let me know when a good time is. Julie and I are in the office all week.

-Christina

CC: Craig J. Wilson; Julie Chan

These comments pertain to my review of the fact sheets associated with impairments due to high bacteria concentrations.

- Bacteria
Rec. - 1*
1. **Inconsistencies with assigned beneficial uses.** Fact sheets describe beneficial uses for each location evaluated. There is inconsistency in describing beneficial uses along different segments of the Pacific Ocean shoreline. For example, Pacific Ocean shoreline, Miramar Reservoir HA is listed as having the following beneficial uses: AQ- aquaculture, BI- biological habitat, CM- commercial and sport fishing, IN- Industrial supply, MA- marine habitat, MI- fish migration, NA- navigation, R1- water contact recreation, R2- non-water contact recreation, RA- rare and endangered species, SH- shellfish harvesting, SP- fish spawning, WI- wildlife habitat. On the other hand, the beneficial uses associated with the Pacific Ocean shoreline, Scripps HA describe only 2 beneficial uses: water contact recreation and non-contact recreation. Why are only these 2 beneficial uses mentioned here? The San Diego Basin Plan recognizes all the beneficial uses above applying to the Pacific Ocean. The Basin Plan does not distinguish applicability of certain beneficial uses from others when looking at different shoreline segments. It appears that this use was applied in a discretionary fashion. The listing policy does not describe such a process. Recommend describing this process somewhere in the documents.

- (make these changes when reviewing all factsheets)*
2. **Inconsistencies with applying WQOs for shellfish harvesting.** Out of all the fact sheets pertaining to bacteria, only one location has been evaluated against the stringent WQO for shellfish harvesting. This is the mouth of the San Diego River, a.k.a. Dog Beach. It is unclear why this is the only location where this WQO applies. The Ocean Plan states that bacterial objectives must be maintained throughout the water column where shellfish may be harvested for human consumption, as determined by the Regional Board. Again, the Basin Plan designates the entire Pacific Ocean as having the shellfish harvesting beneficial use. It is unclear then why the WQO associated with this beneficial use was not used in evaluations for all locations.

3. **Ambiguity in descriptions of temporal representation.** The fact sheets describe temporal representation as "mostly during the dry season, but samples were also taken during the wet season." Do samples taken during the "wet season" strictly occur during the months of November-March, or do these samples specifically refer to a wet-weather (storm) event? If "wet season" and "dry season" refer to certain months of the year, we recommend changing the wording to: "...most samples were taken during the summer dry season. Samples taken during the winter season may or may not include samples influenced by storm events, when single-sample WQOs are most likely to be exceeded. The only way to tell is to correlate sample data to the nearest rainfall gauge." !

*and resolution were
leave it.*

Distinguishing the data is important because our analysis in TMDL development shows that the majority of impairment occurs during storm events. Before locations are de-listed, it should be made clear that beneficial uses are sufficiently protected at all times. Recommend adding percentages to the "temporal representation" discussion, i.e. 80 percent of samples occurred during dry weather, and 20 percent occurred during storm events, or something like that.

not gonna do it

4. **Results from Children's Pool.** The fact sheet states, "A total of 344 analyses were performed from 1999 through 2003. Of these, there were 99 exceedances of the bacterial standards for all three indicators, which equates to nearly 30% of the analyses conducted at this site." However, the listing/de-listing policy states that 10 percent is the required threshold to list or de-list a particular location. Children's Pool is a popular resting spot for local harbor seals, and swimmers are discouraged from swimming in this location because of dangerous and harmful encounters with the seals and also because of poor water quality in the vicinity. It is inconsistent to ignore the wildlife habitat beneficial use at Children's Pool and simultaneously declare ~~this area fit for contact recreation.~~

Children's Pool.

Basin Plan change

5. **Repeated information.** Evaluations of Tourmaline Surf Park, Windansea Beach at Bonair St., and Children's Pool show up twice in the fact sheets.

delete

can't find these.

San Diego Region General Comments.

1. Beneficial Use Acronyms. Our Basin Plan beneficial use acronyms are different than the ones in the fact sheet. Is it possible for you to use our acronyms in the fact sheets? *use what we have.*

2. Use a comma in numbers greater than 999. Your use of the comma is inconsistent. Sometimes the comma is there and sometimes it isn't. Using the comma is helpful to differentiate between numbers and dates which frequently occur in the same sentence. *no consequence / try to fix if possible.*

3. Numeric Line of Evidence: In this field, what exactly does "Pollutant-Water" mean? What does "Pollutant- Nuisance" mean? We found these terms confusing. *Staff report explains.*

4. Inconsistent use of "standard," "objective," and "criteria." Make sure these terms are used consistently and appropriately in the fact sheets. *we've tried. if you have specific examples we will fix them*

5. Adopt standard language for the "Data used to assess water quality field." Many different styles appear in the sheets. For example:

"Four of 4 samples exceeded the CTR criterion."

"Four water samples, two samples exceeding."

"Eight total samples taken at two stations, a total of five samples from two sampling stations exceeded the CTR criterion."

"Data were collected by the City of San Diego Water Dept. in 2000. 2 of 2 samples were in exceedence."

thanks for suggestion

Personally, I like the third example best. It tells you how many data sets there were, and what objective was exceeded.

6. Constituent impairs which beneficial use? – The listings should specify which specific beneficial uses are impaired for the specific constituent. *will fall out*

a. Diazinon impairs WARM beneficial uses – The California Department of Fish and Game (CDFG) aquatic life hazard assessment criteria for diazinon for one-hour acute toxicity is 0.08 ug/l, and the aquatic life hazard assessment criteria for diazinon 4-day chronic toxicity is 0.05 ug/l. These criterion apply to freshwater aquatic life toxicity, and as such applies readily to 'Warm Freshwater Habitat' (WARM), but not to all beneficial uses.

b. Dieldrin impairs WARM, MUN, and REC-1 beneficial uses – The California Toxics Rule (CTR) states that the human health (10^{-6} risk for carcinogens) for consumption of water & organisms for dieldrin is 0.00014 ug/L. Dieldrin levels which exceed the CTR human health (10^{-6} risk for carcinogens) for consumption of water & organisms readily

applies to WARM and REC-1, but not to the other beneficial uses stated on the fact sheets. Please note that the CTR criteria units for dieldrin are in $\mu\text{g/L}$, not mg/l .

- c. Manganese impairs MUN beneficial uses – The water quality objective for manganese in inland surface waters with a MUN beneficial use is 0.05 mg/l . The water quality objective for manganese does not apply to all beneficial uses. (Note: The Basin Plan secondary drinking water standard for manganese of 0.05 mg/l affects MUN, not the other beneficial uses).
 - d. Chloride impairs which beneficial uses? – Does the water quality objective for chloride affect MUN? A specific constituent would not affect ALL of the beneficial uses unless the fact sheet documents the applicable water quality objective / water quality criterion for each beneficial use.
 - e. ‘Sediment bioassays - chronic toxicity – freshwater’ may impair aquatic life beneficial uses such as WARM, but the rationale for applying it to RARE and/or WILD has not been described in sufficient detail in this listing for the San Diego Water Board to evaluate/or support the impairment to RARE or WILD beneficial uses. The waterbody segment may be listed RARE due to presence of endangered plant, a riparian bird, an amphibian, and/or another species. The rationale for application of the impairment to RARE or WILD must be explained, so that the RARE or WILD impairment can be evaluated.
7. Water quality objective / water quality criterion? – Double check the quantitative units and the terminology for each specific water quality objective / water quality criterion. The factsheets are inconsistent within the water quality objective / water quality criterion for the same constituent.
- a. Water quality objective / water quality criterion for diazinon – Correct the quantitative units for diazinon listings. The California Department of Fish and Game (CDFG) aquatic life hazard assessment criteria for one-hour acute toxicity is $0.08 \mu\text{g/L}$, and the four-day chronic toxicity is $0.05 \mu\text{g/L}$. (Note: The values of “ 0.05 mg/l ” and “ 0.08 mg/l ” are typographic errors in the quantitative units).

- b. Water quality objective / water quality criterion for dissolved oxygen – Delete and replace the dissolved oxygen water quality objective/ water quality criterion for the dissolved oxygen listings with the following:
“From the Basin Plan: Dissolved oxygen levels shall not be less than 5.0 mg/l in inland surface waters with designated MAR or WARM beneficial uses or less than 6.0 mg/l in waters with designated COLD beneficial uses. The annual mean dissolved oxygen concentrations shall not be less than 7 mg/l more than 10% of the time.”

replace

1.75
4.75

c. Water quality objective / water quality criterion for manganese - The explanatory text for all of the manganese listings should be replaced. For example, the listing for manganese in Escondido Creek, could be written as follows: "The water quality objective for manganese in Escondido Creek is 0.05 milligrams/liter (mg/l) according to Basin Plan, Table 3-2 entitled, Water Quality Objectives. This concentration is not be exceeded more than 10% of the time during any one year period."

replace

8. The sample site description should use degrees North and West in the longitude and latitude description. For example, 33.51215° N, 117.75179° W for the Aliso Creek-Diazinon site. *If we have this, we'll use it.*

9. Waterbody stream segments - The 303(d) listing should specify the waterbody and specific hydrologic subarea number (HSA) which is impaired. The San Diego Water Board lists waterbodies by name and HSA. When the HSA is not specified in the waterbody listing, and the listing only provides the waterbody name, confusion may result. The fact sheets should be corrected to include waterbody name and HSA. [Note: For example, the reader can not determine which three waterbody segments called Buena Vista Creek the listing applies to. Those Buena Vista Creek waterbody segments are in HSA 903.31, 904.21, 904.22. Another example: the reader can not determine which of 5 waterbody segments called Cottonwood Creek the listing applies to. Those Cottonwood Creek waterbody segments are in HSA 902.21, 902.8, 911.23, 911.30 and 911.60.]

conf. Eizon
take out
for all
sites.

10. Manganese listings - Weight of Evidence Field: Some fact sheets have two initial paragraphs (Escondido Creek) that are omitted in other fact sheets (Barrett Lake). Be consistent. *(Nancy may be able to address - on map)*

11. Sediment Bioassays - Chronic Toxicity - Freshwater: We agree that chronic toxicity can affect aquatic life beneficial uses, but the rationale for applying it to RARE or WILD beneficial uses has not been described in sufficient detail in these listing to evaluate/or support the impairment to RARE or WILD beneficial uses.

WARM?

12. We use the term "Indicator Bacteria" instead of "Bacteria Indicators" because the bacteria indicate the presence of human pathogens, not bacteria. We see it used both ways in the literature, although I think "Indicator Bacteria" is more prevalent. *Nancy.*

13. AB 411 Objectives for Bacteria. Why didn't you cite the Ocean Plan and Basin Plan as the source for Bacteria objectives? *(cite as reference)*

14. Ocean Plan amendments of January 2005. The Ocean Plan amendments (which have not yet been approved by OAL) contain the policy that water quality assessment decisions should not be based solely on single sample maximum

★
look for
these

objectives unless there are extenuating circumstances. It doesn't look like you calculated geometric mean bacteria values from the data. Did you just not do it, or was the data such that geomeans could not be calculated?

Geomean values are important for evaluating dry weather data. Dry weather flow is much more likely to exceed geomean objectives than single sample objectives. I suspect that most of the bacteria data you received would be classified as dry weather (by which I mean non-storm flow) and should be evaluated against geomean objectives. *We are not going to do this*

if RBG wants to make a distinction they can do that but it has to be done soon.

15. Temporal representations. The San Diego Region doesn't really have a wet season and a dry season. We characterize our flow regime periods as "summer dry," "winter dry," and "storm flow." We define a storm flow period as any period of time in which 0.2 inches of rain has fallen, and the 72 hours afterward. (Average annual rainfall is around 10 inches per year down here). Summer dry and winter dry conditions are the periods between storm flow periods. Storm flow water quality is more likely to exceed a single sample maximum objective, while summer and winter dry water quality is more likely to exceed geomean objectives.

That being said, we are reluctant to delist water segments based solely on dry condition data. Many of the beaches proposed for delisting are downstream of low flow diversions or other dry condition controls which catch the urban drool. These beaches are very likely meeting water quality objectives as long as it's not raining. However, when storms overrun the low-flow controls, high bacteria loads are delivered to the beaches. We have year round beach use, and need to encourage storm water agencies to deal with bacteria sources and storm flows. Source controls and/or treatment controls have not been put in place to deal with storm flow loads, and won't be if the beaches are delisted. Can we delist for dry conditions, but continue to list for storm flow conditions? Let's discuss.

- ~~16. Shell Fish Harvesting: Per our discussion on 7/16/05, you made clear that you would not evaluate the bacteria data for compliance with SHELL objectives. You stated that recreational beaches in our region don't have any edible species of shellfish and that you don't believe the use exists. Let's discuss this again. It's not that I don't believe you (I do). However, if what you say is true, we need the information you based your decision on, and need to consider putting this on our triennial review for investigation, and possibly a Basin Plan amendment. I would rather tackle this head on than side step it. It's going to come up since we're preparing TMDLs for SHELL impairments at recreational beaches. Our dischargers will notice the absence of SHELL listings and when they discover State Board's position, we will need to act.~~

Wet/Dry:

From: Julie Chan
To: Craig J. Wilson; Cynthia Gorham-Test; Jessie Maxfield
Date: 8/18/05 7:57AM
Subject: oil & grease fact sheets

Craig and Jessie,

Cynthia Gorham-Test of our staff did some research on numeric interpretations of the the Oil and Grease narrative objective. Based on that, we recommend a numeric criterion of 15 ppm be used to interpret the narrative WQO "Water shall not contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or which otherwise adversely affect beneficial uses".

The 15 ppm value is used by the U.S. Coast Guard to represent waters with a visible film.

A study for the Canadian government by ERIN Consulting Ltd. stated: "petroleum hydrocarbon concentrations of 20 to 40 ppm in produced water may be associated with sheens".

The U.S. EPA "Gold Book" (EPA 440/5-86-001) reports that an oil & grease value of 100 ppm can be toxic to marine larvae, and values between 10 to 100 ppm cause sublethal effects to marine organisms. While this value does not directly address oil and grease visible film or coating, it addresses another beneficial use that could be adversely affected.

Call if you have any questions.
Julie

(Need documents to cite if
we can use this.)