

Item No. 9
Doc. No. 1

STATE WATER RESOURCES CONTROL BOARD

WATER QUALITY ENFORCEMENT POLICY

November 17, 2009

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

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INTRODUCTION

The State Water Resources Control Board (State Water Board) and the Regional Water Quality Control Boards (Regional Water Boards) (together “Water Boards”) have primary responsibility for the coordination and control of water quality in California. In the Porter-Cologne Water Quality Control Act (Porter-Cologne), the Legislature declared that the “state must be prepared to exercise its full power and jurisdiction to protect the quality of the waters in the state from degradation...” (Wat. Code, § 13000). Porter-Cologne grants the Water Boards the authority to implement and enforce the water quality laws, regulations, policies, and plans to protect the groundwater and surface waters of the State. Timely and consistent enforcement of these laws is critical to the success of the water quality program and to ensure that the people of the State have clean water. The goal of this Water Quality Enforcement Policy (Policy) is to protect and enhance the quality of the waters of the State by defining an enforcement process that addresses water quality problems in the most efficient, effective, and consistent manner. In adopting this Policy, the State Water Board intends to provide guidance that will enable Water Board staff to expend its limited resources in ways that openly address the greatest needs, deter harmful conduct, protect the public, and achieve maximum water quality benefits. Toward that end, it is the intent of the State Water Board that the Regional Water Boards’ decisions be consistent with this Policy.

A good enforcement program relies on well-developed compliance monitoring systems designed to identify and correct violations, help establish an enforcement presence, collect evidence needed to support enforcement actions where there are identified violations, and help target and rank enforcement priorities. Compliance with regulations is critical to protecting public health and the environment, and it is the preference of the State Water Board that the most effective and timely methods be used to assure that the regulated community stays in compliance. Tools such as providing assistance, training, guidance, and incentives are commonly used by the Water Boards and work very well in many situations. There is a point, however, at which this cooperative approach should make way for a more forceful approach.

This Policy addresses the enforcement component (i.e. actions that take place in response to a violation) of the Water Boards’ regulatory framework, which is an equally critical element of a successful regulatory program. Without a strong enforcement program to back up the cooperative approach, the entire regulatory framework would be in jeopardy. Enforcement is a critical ingredient in creating the deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action.

In furtherance of the water quality regulatory goals of the Water Boards, this Policy:

- Establishes a process for ranking enforcement priorities based on the actual or potential impact to the beneficial uses or the regulatory program and for using progressive levels of enforcement, as necessary, to achieve compliance;
- Establishes an administrative civil liability assessment methodology to create a fair and consistent statewide approach to liability assessment;
- Recognizes the use of alternatives to the assessment of civil liabilities, such as supplemental environmental projects, compliance projects, and enhanced compliance actions, but requires standards for the approval of such alternatives to ensure they provide the expected benefits;

- Identifies circumstances in which the State Water Board will take action, even though the Regional Water Boards have primary jurisdiction;
- Addresses the eligibility requirements for small communities to qualify for carrying out compliance projects, in lieu of paying mandatory minimum penalties pursuant to California Water Code section 13385;
- Emphasizes the recording of enforcement data and the communication of enforcement information to the public and the regulated community; and
- Establishes annual enforcement reporting and planning requirements for the Water Boards.

The State's water quality requirements are not solely the purview of the Water Boards and their staffs. Other agencies, such as, the California Department of Fish and Game have the ability to enforce certain water quality provisions in state law. State law also allows members of the public to bring enforcement matters to the attention of the Water Boards and authorizes aggrieved persons to petition the State Water Board to review most actions or failures to act of the Regional Water Boards. In addition, state and federal statutes provide for public participation in the issuance of orders, policies, and water quality control plans. Finally, the federal Clean Water Act (CWA) authorizes citizens to bring suit against dischargers for certain types of CWA violations.

I. **FAIR, FIRM, AND CONSISTENT ENFORCEMENT**

It is the policy of the State Water Board that the Water Boards shall strive to be fair, firm, and consistent in taking enforcement actions throughout the State, while recognizing the unique facts of each case.

A. Standard and Enforceable Orders

The Water Board orders shall be consistent except as appropriate for the specific circumstances related to the discharge and to accommodate differences in applicable water quality control plans.

B. Determining Compliance

The Water Boards shall implement a consistent and valid approach to determine compliance with enforceable orders.

C. Suitable Enforcement

The Water Boards' enforcement actions shall be suitable for each type of violation, providing consistent treatment for violations that are similar in nature and have similar water quality impacts. Where necessary, enforcement actions shall also ensure a timely return to compliance.

D. Environmental Justice

The Water Boards shall promote enforcement of all health and environmental statutes within their jurisdictions in a manner that ensures the fair treatment of people of all races, cultures, and income levels, including minority and low-income populations in the state.

Specifically, the Water Boards shall pursue enforcement that is consistent with the goals identified in Cal-EPA's Intra-Agency Environmental Justice Strategy, August 2004 (<http://www.calepa.ca.gov/EnvJustice/Documents/2004/Strategy/Final.pdf>) as follows:

- Ensure meaningful public participation in enforcement matters;
- Integrate environmental justice considerations into the enforcement of environmental laws, regulations, and policies;
- Improve data collection and availability of violation and enforcement information for communities of color and low-income populations; and,
- Ensure effective cross-media coordination and accountability in addressing environmental justice issues.

E. Facilities Serving Small Communities

The State Water Board has a comprehensive strategy for facilities serving small and/or disadvantaged communities that extends beyond enforcement and will revise that strategy as necessary to address the unique compliance challenges faced by these communities (see State Water Resources Control Board Resolution No. 2008-0048). Consistent with this strategy, reference in this Section E. to small communities is intended to denote both small and disadvantaged small communities.

Publicly owned treatment works (POTWs) and sewage collection systems that serve small communities must comply with water quality protection laws. The State Water Board recognizes that complying with environmental laws and regulations will require higher per capita expenditures in small communities than in large communities. When water quality violations occur, traditional enforcement practices used by the Water Boards may result in significant costs to these communities and their residents, thereby limiting their ability to achieve compliance without suffering disproportionate hardships.

In recognition of these factors, informal enforcement or compliance assistance will be the first steps taken to return a facility serving a small community to compliance, unless the Water Board finds that extenuating circumstances apply. Informal enforcement is covered in Appendix A. Compliance assistance activities are based on a commitment on the part of the entity to achieve compliance and shall be offered in lieu of enforcement when an opportunity exists to correct the violations. Compliance activities that serve to bring a facility into compliance include, but are not limited to:

- Education of the discharger and its employees regarding their permit, order, monitoring/reporting program, or any applicable regulatory requirements;
- Working with the discharger to seek solutions to resolve violations or eliminate the causes of violations; and,
- Assistance in identifying available funding and resources to implement measures to achieve compliance.

Further, the Water Boards recognize that timely initiation of progressive enforcement is important for a noncompliant facility serving a small community. When enforcement is taken before a large liability accumulates, there is greater likelihood the facility serving the small community will be able to address the liability and return to compliance within its financial capabilities.

II. ENFORCEMENT PRIORITIES FOR DISCRETIONARY ENFORCEMENT ACTIONS

It is the policy of the State Water Board that every violation results in the appropriate enforcement response consistent with the priority of the violation established in accordance with this Policy. The Water Boards shall rank violations and then prioritize cases for formal discretionary enforcement action to ensure the most efficient and effective use of available resources.

A. Ranking Violations

The first step in enforcement ranking is determining the relative significance of each violation. The following criteria will be used by the Water Boards to identify and classify significant violations in order to help establish priorities for enforcement efforts.

1. *Class I Priority Violations*

Class I priority violations are those violations that pose an immediate and substantial threat to water quality and that have the potential to cause significant detrimental impacts to human health or the environment. Violations involving recalcitrant parties who deliberately avoid compliance with water quality regulations and orders are also considered class I priority violations because they pose a serious threat to the integrity of the Water Boards' regulatory programs.

Class I priority violations include, but are not limited to, the following:

- a. Significant measured or calculated violations with lasting effects on water quality objectives or criteria in the receiving waters;
- b. Violations that result in significant lasting impacts to existing beneficial uses of waters of the State;
- c. Violations that result in significant harm to, or the destruction of, fish or wildlife;
- d. Violations that present an imminent danger to public health;
- e. Unauthorized discharges that pose a significant threat to water quality;
- f. Falsification of information submitted to the Water Boards or intentional withholding of information required by applicable laws, regulations, or enforceable orders;
- g. Violation of a prior enforcement action-- such as a cleanup and abatement order or cease and desist order--that results in an unauthorized discharge of waste or pollutants to water of the State; and

- h. Knowing and willful failure to comply with monitoring requirements as required by applicable laws, regulations, or enforceable orders because of knowledge that monitoring results will reveal violations.

2. Class II Violations

Class II violations are those violations that pose a moderate, indirect, or cumulative threat to water quality and, therefore, have the potential to cause detrimental impacts on human health and the environment. Negligent or inadvertent noncompliance with water quality regulations that has the potential for causing or allowing the continuation of an unauthorized discharge or obscuring past violations is also a class II violation.

Class II violations include, but are not limited to, the following:

- a. Unauthorized discharges that pose a moderate or cumulative threat to water quality;
- b. Violations of acute or chronic toxicity requirements where the discharge may adversely affect fish or wildlife;
- c. Violations that present a substantial threat to public health;
- d. Negligent or inadvertent failure to substantially comply with monitoring requirements as required by applicable laws, regulations, or enforceable orders, such as not taking all the samples required;
- e. Negligent or inadvertent failure to submit information as required by applicable laws, regulations, or an enforceable order where that information is necessary to confirm past compliance or to prevent or curtail an unauthorized discharge;
- f. Violations of compliance schedule dates (e.g., schedule dates for starting construction, completing construction, or attaining final compliance) by 30 days or more from the compliance date specified in an enforceable order;
- g. Failure to pay fees, penalties, or liabilities within 120 days of the due date, unless the discharger has pending a timely petition pursuant to California Water Code section 13320 for review of the fee, penalty, or liability, or a timely request for an alternative payment schedule, filed with the Regional Water Board;
- h. Violations of prior enforcement actions that do not result in an unauthorized discharge of waste or pollutants to waters of the State;
- i. Significant measured or calculated violations of water quality objectives or promulgated water quality criteria in the receiving waters; and
- j. Violations that result in significant demonstrated impacts on existing beneficial uses of waters of the State.

3. Class III Violations

Class III violations are those violations that pose only a minor threat to water quality and have little or no known potential for causing a detrimental impact on human health and the environment. Class III violations include statutorily required liability for late reporting when such late filings do not result in causing an unauthorized discharge or allowing one to continue. Class III violations should only include violations by dischargers who are first time or infrequent violators and are not part of a pattern of chronic violations.

Class III violations are all violations that are not class I priority or class II violations. Those include, but are not limited to, the following:

- a. Unauthorized discharges that pose a low threat to water quality;
- b. Negligent or inadvertent late submission of information required by applicable laws, regulations, or enforceable orders;
- c. Failure to pay fees, penalties, or liabilities within 30 days of the due date, unless the discharger has pending a timely petition pursuant to California Water Code section 13320 for review of the fee, penalty or liability; or a timely request for an alternative payment schedule, filed with the Regional Water Board;
- d. Any "minor violation" as determined pursuant to California Water Code section 13399 et seq. (see Appendix A. C.1a);
- e. Negligent or inadvertent failure to comply with monitoring requirements when conducting monitoring as required by applicable laws, regulations, or enforceable orders, such as using an incorrect testing method;
- f. Less significant (as compared to class II violations) measured or calculated violations of water quality objectives or promulgated water quality criteria in the receiving waters; and
- g. Violations that result in less significant (as compared to class II violations) demonstrated impacts to existing beneficial uses of waters of the State.

B. Enforcement Priorities for Individual Entities

The second step in enforcement ranking involves examining the enforcement records of specific entities based on the significance and severity of their violations, as well as other factors identified below. Regional Water Board senior staff and management, with support from the State Water Board Office of Enforcement, shall meet on a regular basis, no less than bi-monthly, and identify their highest priority enforcement cases. To the greatest extent possible, Regional Water Board shall target entities with class I priority violations for formal enforcement action.

In determining the importance of addressing the violations of a given entity, the following criteria should be used:

1. Class of the entity's violations;
2. History of the entity
 - a. Whether the violations have continued over an unreasonably long period after being brought to the entity's attention and are reoccurring;
 - b. Whether the entity has a history of chronic noncompliance;
 - c. Compliance history of the entity and good-faith efforts to eliminate noncompliance;
3. Evidence of, or threat of, pollution or nuisance caused by violations;
4. The magnitude or impacts of the violations;
5. Case-by-case factors that may mitigate a violation;
6. Impact or threat to high priority watersheds or water bodies (e.g., due to the vulnerability of an existing beneficial use or an existing state of impairment);
7. Potential to abate effects of the violations;
8. Strength of evidence in the record to support the enforcement action; and
9. Availability of resources for enforcement.

C. Automated Violation Priorities

It is the goal of the State Water Board to develop data algorithms to assign the relative priority of individual violations consistent with this Policy by January 1, 2012. This automated system should simplify the ranking of violations and facilitate prioritization of cases for enforcement.

D. Setting Statewide and Regional Priorities

On an annual basis, the State Water Board will propose statewide enforcement priorities. These priorities may be based on types of violations, individual regulatory programs, particular watersheds, or any other combined aspect of the regulatory framework in which an increased enforcement presence is required. These priorities will be documented in an annual enforcement report and reevaluated each year.

As part of the State Water Board's annual enforcement prioritization process, each Regional Water Board will identify and reevaluate its own regional priorities on an annual basis. This will also be included in a regional annual enforcement report.

E. Mandatory Enforcement Actions

In addition to these criteria for discretionary enforcement, the Water Boards will continue to address mandatory enforcement obligations imposed by the law (e.g. Wat. Code § 13385, subds.(h) and (i)). As detailed in Section VII, these mandatory actions should be taken within 18 months of the time that the violations qualify for the assessment of mandatory minimum penalties.

III. ENFORCEMENT ACTIONS

The Water Boards have a variety of enforcement tools to use in response to noncompliance by dischargers. With certain specified exceptions California Water Code section 13360, subdivision (a) prohibits the State Water Board or Regional Water Board from specifying the design, location, type of construction, or particular manner in which compliance may be had with a particular requirement. For every enforcement action taken, the discharger's return to compliance should be tracked in the Water Board's enforcement database. See Appendix A for additional information.

IV. STATE WATER BOARD ENFORCEMENT ACTION

The Regional Water Boards have primary responsibility for matters directly affecting the quality of waters within their region. The State Water Board has oversight authority in such matters and may, from time to time, take enforcement action in lieu of the Regional Water Board as follows:

- In response to petitions alleging inaction or ineffective enforcement action by a Regional Water Board;
- To enforce statewide or multi-regional general permits;
- To address violations by the same discharger in more than one region;
- Where the Regional Water Board's lead prosecutor has requested that the State Water Board take over the enforcement action;
- Where a Regional Water Board is unable to take an enforcement action because of quorum problems, conflicts of interest, or other administrative circumstances;
- Where a Regional Water Board has not investigated or initiated an enforcement action for a class I priority violation in a manner consistent with this Policy; and
- Actions where the Executive Director has determined that enforcement by the State Water Board is necessary and appropriate.

Where the State Water Board decides to pursue such enforcement, the Office of Enforcement will coordinate investigation of the violations and preparation of the enforcement action with the staff of the affected Regional Water Board to ensure that the State Water Board will not duplicate efforts of the Regional Water Board. Except under unusual circumstances, the Regional Water Board enforcement staff will have the opportunity to participate and assist in

any investigation and the Office of Enforcement will seek input from the Regional Water Board enforcement staff in the development of any resulting enforcement action. Such action may be brought before the State Water Board or the Regional Water Board, as may be deemed appropriate for the particular action. The decision as to where to bring the enforcement action will be discussed with the affected Regional Water Board enforcement staff. Enforcement actions requiring compliance monitoring or long-term regulatory follow-up will generally be brought before the appropriate Regional Water Board.

V. COORDINATION WITH OTHER REGULATORY AGENCIES

A. Hazardous Waste Facilities

At hazardous waste facilities where the Regional Water Board is the lead agency for corrective action oversight, the Regional Water Board shall consult with Department of Toxics Substance Control (DTSC) to ensure, among other things, that corrective action is at least equivalent to the requirements of the Federal Resource, Conservation, and Recovery Act (RCRA).

B. Oil Spills

The Water Boards will consult and cooperate with the Office of Spill Prevention and Response at the Department of Fish and Game (OSPR) for any oil spill involving waters under the jurisdiction of OSPR.

C. General

The Water Boards will work cooperatively with other local, state, regional, and federal agencies when violations, for which the agency itself is not responsible, occur on lands owned or managed by the agency. Where appropriate, the Water Boards will also coordinate enforcement actions with other agencies that have concurrent enforcement authority.

VI. MONETARY ASSESSMENTS IN ADMINISTRATIVE CIVIL LIABILITY (ACL) ACTIONS

A. Penalty Calculation Methodology

As a general matter, where, as in the California Water Code, a civil penalty structure has been devised to address environmental violations, civil penalties do not depend on proof of actual damages to the environment. Courts in reviewing similar environmental protection statutes have held that a plaintiff need not prove a loss before recovering a penalty; instead, the defendant must demonstrate that the penalty should be less than the statutory maximum. In certain cases, a strong argument can be made that consideration of the statutory factors can support the statutory maximum as an appropriate penalty for water quality violations, in the absence of any other mitigating evidence. Moreover, as discussed below, the Porter-Cologne Act requires that certain civil liabilities be set at a level that accounts for any "economic benefit or savings" violators gained through their violations. (Wat. Code, § 13385, subd. (e).) Economic benefit or savings is a factor to be considered in determining the amount of other civil liabilities. (Wat. Code, § 13327.) The Water Boards have powerful liability provisions at their disposal which the Legislature and the public expect them to fairly and consistently implement for maximum enforcement impact to address, correct, and deter water quality violations.

While it is a goal of this Policy to establish broad consistency in the Water Boards' approach to enforcement, the Policy recognizes that, with respect to liability determinations, each Regional Water Board, and each specific case, is somewhat unique. The goal of this section is to provide a consistent approach and analysis of factors to determine administrative civil liability. Where violations are standard and routine, a consistent outcome can be reasonably expected using this Policy. In more complex matters, however, the need to assess all of the applicable factors in liability determinations may yield different outcomes in cases that may have many similar facts.

Liabilities imposed by the Water Boards are an important part of the Water Boards' enforcement authority. Accordingly, any assessment of administrative civil liability, whether negotiated pursuant to a settlement agreement or imposed after an administrative adjudication, should:

- Be assessed in a fair and consistent manner;
- Fully eliminate any economic advantage obtained from noncompliance;¹
- Fully eliminate any unfair competitive advantage obtained from noncompliance;
- Bear a reasonable relationship to the gravity of the violation and the harm to beneficial uses or regulatory program resulting from the violation;
- Deter the specific person(s) identified in the ACL from committing further violations; and
- Deter similarly situated person(s) in the regulated community from committing the same or similar violations.

The liability calculation process set forth in this chapter provides the decision-maker with a methodology for arriving at a liability amount consistent with these objectives. This process is applicable to determining administratively-adjudicated assessments as well as those obtained through settlement. In reviewing a petition challenging the use of this methodology by a Regional Water Board, the State Water Board will generally defer to the decisions made by the Regional Water Boards in calculating the liability amount unless it is demonstrated that the Regional Water Board made a clear factual mistake or error of law, or that it abused its discretion.

The following provisions apply to all discretionary administrative civil liabilities (ACLs). Mandatory Minimum Penalties (MMPs) required pursuant to California Water Code section 13385, subdivisions (h) and (i), are discussed in Chapter VII.

General Approach

A brief summary of each step is provided immediately below. A more complete discussion of each step is presented later in this section.

Step 1. *Potential for Harm for Discharge Violations* – Calculate Potential for Harm considering: (1) the potential for harm to beneficial uses; (2) the degree of toxicity of the discharge; and (3) the discharge's susceptibility to cleanup or abatement.

¹ When liability is imposed under California Water Code § 13385, Water Boards are statutorily obligated to recover, at a minimum, all economic benefit to the violator as a result of the violation.

Step 2. *Per Gallon and Per Day Assessments for Discharge Violations* – For discharges resulting in violations, use Table 1 and/or Table 2 to determine Per Gallon and/or Per Day Assessments. Depending on the particular language of the ACL statute being used, either or both tables may be used. Multiply these factors by per gallon and/or per day amounts as described below. Where allowed by code, both amounts should be determined and added together. This becomes the initial amount of the ACL for the discharge violations.

Step 3. *Per Day Assessments for non-Discharge Violations* – For non-discharge violations, use Table 3 to determine per day assessments. Multiply these factors by the per day amount as described below. Where allowed by the California Water Code, amounts for these violations should be added to amounts (if any) for discharge violations from Step 2, above. This becomes the initial amount of the ACL for the non-discharge violations.

Step 4. *Adjustment Factors* – Adjust the initial amounts for each violation by factors addressing the violator’s conduct, multiple instances of the same violation, and multiple day violations.

Step 5. *Total Base Liability Amount* – Add the adjusted amounts for each violation from Step 4.

Thereafter, the Total Base Liability amount may be adjusted, based on consideration of the following:

Step 6. *Ability to Pay and Ability to Continue in Business* – If the ACL exceeds these amounts, it may be adjusted downward provided express findings are made to justify this.

Step 7. *Other Factors as Justice May Require* – Determine if there are additional factors that should be considered that would justify an increase or a reduction in the Total Base Liability amount. These factors must be documented in the ACL Complaint. One of these factors is the staff costs of investigating the violations and issuing the ACL. The staff costs should be added to the amount of the ACL.

Step 8. *Economic Benefit* – The economic benefit of the violations must be determined based on the best available information, and the amount of the ACL should exceed this amount. (Note that the Economic Benefit is a statutory minimum for ACLs issued pursuant to California Water Code section 13385.)

Step 9. *Maximum and Minimum Liability Amounts* - Determine the statutory maximum and minimum amounts of the ACL, if any. Adjust the ACL to ensure it is within these limits.

Step 10. *Final Liability Amount* – The final liability amount will be assessed after consideration of the above factors. The final liability amount and significant considerations regarding the liability amount must be discussed in the ACL Complaint and in any order imposing liability.

STEP 1 - Potential for Harm for Discharge Violations

Calculating this factor is the initial step for discharge violations. Begin by determining the actual or threatened impact to beneficial uses caused by the violation using a three-factor scoring

system to quantify: (1) the potential for harm to beneficial uses; (2) the degree of toxicity of the discharge; and (3) the discharge's susceptibility to cleanup or abatement for each violation or group of violations.

Factor 1: Harm or Potential Harm to Beneficial Uses

The evaluation of the potential harm to beneficial uses factor considers the harm that may result from exposure to the pollutants or contaminants in the illegal discharge, in light of the statutory factors of the nature, circumstances, extent and gravity of the violation or violations. The score evaluates direct or indirect harm or potential for harm from the violation. A score between 0 and 5 is assigned based on a determination of whether the harm or potential for harm is negligible (0), minor (1), below moderate (2), moderate (3), above moderate (4), or major (5).

- 0 = Negligible - no actual or potential harm to beneficial uses.
- 1 = Minor - low threat to beneficial uses (i.e., no observed impacts but potential impacts to beneficial uses with no appreciable harm).
- 2 = Below moderate – less than moderate threat to beneficial uses (i.e., impacts are observed or reasonably expected, harm to beneficial uses is minor).
- 3 = Moderate - moderate threat to beneficial uses (i.e., impacts are observed or reasonably expected and impacts to beneficial uses are moderate and likely to attenuate without appreciable acute or chronic effects).
- 4 = Above moderate – more than moderate threat to beneficial uses (i.e., impacts are observed or likely substantial, temporary restrictions on beneficial uses (e.g., less than 5 days), and human or ecological health concerns).
- 5 = Major - high threat to beneficial uses (i.e., significant impacts to aquatic life or human health, long term restrictions on beneficial uses (e.g., more than five days), high potential for chronic effects to human or ecological health).

Factor 2: The Physical, Chemical, Biological or Thermal Characteristics of the Discharge

The characteristics of this discharge factor are scored based on the physical, chemical, biological, and/or thermal nature of the discharge, waste, fill, or material involved in the violation or violations. A score between 0 and 4 is assigned based on a determination of the risk or threat of the discharged material, as outlined below. For purposes of this Policy, “potential receptors” are those identified considering human, environmental and ecosystem health exposure pathways.

- 0 = Discharged material poses a negligible risk or threat to potential receptors (i.e., the chemical and/or physical characteristics of the discharged material are benign and will not impact potential receptors).
- 1 = Discharged material poses only minor risk or threat to potential receptors (i.e., the chemical and/or physical characteristics of the discharged material are relatively benign or are not likely to harm potential receptors).

- 2 = Discharged material poses a moderate risk or threat to potential receptors (i.e., the chemical and/or physical characteristics of the discharged material have some level of toxicity or pose a moderate level of concern regarding receptor protection).
- 3 = Discharged material poses an above-moderate risk or a direct threat to potential receptors (i.e., the chemical and/or physical characteristics of the discharged material exceed known risk factors and /or there is substantial concern regarding receptor protection).
- 4 = Discharged material poses a significant risk or threat to potential receptors (i.e., the chemical and/or physical characteristics of the discharged material far exceed risk factors or receptor harm is considered imminent).

Factor 3: Susceptibility to Cleanup or Abatement

A score of 0 is assigned for this factor if 50% or more of the discharge is susceptible to cleanup or abatement. A score of 1 is assigned for this factor if less than 50% of the discharge is susceptible to cleanup or abatement. This factor is evaluated regardless of whether the discharge was actually cleaned up or abated by the violator.

Final Score – “Potential for Harm”

The scores for the factors are then added to provide a Potential for Harm score for each violation or group of violations. The total score is used in the “Potential for Harm” axis for the Penalty Factor in Tables 1 and 2. The maximum score is 10 and the minimum score is 0.

STEP 2 - Assessments for Discharge Violations

For violations of NPDES permit effluent limitations, the base liability should be established by calculating the mandatory penalty required under Water Code section 13385(h) and (i). The mandatory penalty should be adjusted upward where the facts and circumstances of the violation warrant a higher liability.

This step addresses per gallon and per day assessments for discharge violations. Generally, it is intended that effluent limit violations be addressed on a per day basis only. Where deemed appropriate, such as for a large scale spill or release, both per gallon and per day assessments may be considered.

Per Gallon Assessments for Discharge Violations

Where there is a discharge, the Water Boards shall determine an initial liability amount on a per gallon basis using on the Potential for Harm score and the extent of Deviation from Requirement of the violation. These factors will be used in Table 1 below to determine a Per Gallon Factor for the discharge. Except for certain high-volume discharges discussed below, the per gallon assessment would then be the Per Gallon Factor multiplied by the number of gallons subject to penalty multiplied by the maximum per gallon penalty amount allowed under the California Water Code.

TABLE 1 - Per Gallon Factor for Discharges

	Potential for Harm									
Deviation from Requirement	1	2	3	4	5	6	7	8	9	10
Minor	0.005	0.007	0.009	0.011	0.060	0.080	0.100	0.250	0.300	0.350
Moderate	0.007	0.010	0.013	0.016	0.100	0.150	0.200	0.400	0.500	0.600
Major	0.010	0.015	0.020	0.025	0.150	0.220	0.310	0.600	0.800	1.000

The Deviation from Requirement reflects the extent to which the violation deviates from the specific requirement (effluent limitation, prohibition, monitoring requirement, construction deadline, etc.) that was violated. The categories for **Deviation from Requirement** in Table 1 are defined as follows:

Minor – The intended effectiveness of the requirement remains generally intact (e.g., while the requirement was not met, there is general intent by the discharger to follow the requirement).

Moderate – The intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).

Major – The requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).

For requirements with more than one part, the Water Boards shall consider the extent of the violation in terms of its adverse impact on the effectiveness of the most significant requirement.

High Volume Discharges

The Water Boards shall apply the above per gallon factor to the maximum per gallon amounts allowed under statute for the violations involved. Since the volume of sewage spills and releases of stormwater from construction sites and municipalities can be very large for sewage spills and releases of municipal stormwater or stormwater from construction sites, a maximum amount of \$2.00 per gallon should be used with the above factor to determine the per gallon amount for sewage spills and stormwater. Similarly, for releases of recycled water that has been treated for reuse, a maximum amount of \$1.00 per gallon should be used with the above factor. Where reducing these maximum amounts results in an inappropriately small penalty, such as dry weather discharges or small volume discharges that impact beneficial uses, a higher amount, up to the maximum per gallon amount, may be used.

Per Day Assessments for Discharge Violations

Where there is a discharge, the Water Boards shall determine an initial liability factor per day based on the Potential for Harm score and the extent of Deviation from Requirement of the violation. These factors will be used in Table 2, below, to determine a Per Day Factor for the violation. The per day assessment would then be the Per Day Factor multiplied by the maximum per day amount allowed under the California Water Code. Generally, it is intended that effluent limit violations be addressed on a per day basis. Where deemed appropriate, such

as for a large scale spill or release, it is intended that Table 2 be used in conjunction with Table 1, so that both per gallon and per day amounts be considered under Water Code section 13385. Where there is a violation of the permit not related to a discharge incident, Step 3/Table 3 below should be used instead.

TABLE 2 - Per Day Factor for Discharges										
	Potential for Harm									
Deviation from Requirement	1	2	3	4	5	6	7	8	9	10
Minor	0.005	0.007	0.009	0.011	0.060	0.080	0.100	0.250	0.300	0.350
Moderate	0.007	0.010	0.013	0.016	0.100	0.150	0.200	0.400	0.500	0.600
Major	0.010	0.015	0.020	0.025	0.150	0.220	0.310	0.600	0.800	1.000

The categories for **Deviation from Requirement** in Table 2 are defined as follows:

Minor – The intended effectiveness of the requirement remains generally intact (e.g., while the requirement was not met, there is general intent by the discharger to follow the requirement).

Moderate – The intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).

Major – The requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).

For requirements with more than one part, the Water Boards shall consider the extent of the violation in terms of the adverse impact on the effectiveness of the most significant requirement.

The Water Boards shall apply the above per day factor to the maximum per day amounts allowed under statute for the violations involved. Where allowed by code, both the per gallon and the per day amounts should be determined and added together. This becomes the initial amount of the ACL for the discharge violations.

STEP 3 - Per Day Assessments for Non-Discharge Violations

The Water Boards shall calculate an initial liability factor for each non-discharge violation, considering Potential for Harm and the extent of deviation from applicable requirements. These violations include, but are not limited to, the failure to conduct routine monitoring and reporting, the failure to provide required information, and the failure to prepare required plans. While these violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. The Water Boards shall use the matrix set forth below to determine the initial liability factor for each violation. The per day assessment would then be the Per Day Factor multiplied by the maximum per day amount allowed under the California Water Code. For multiple day violations, please refer to the Adjustment Factors in Step 4, below.

Table 3 shall be used to determine the initial penalty factor for a violation. The Water Boards should select a penalty factor from the range provided in the matrix cell that corresponds to the appropriate Potential for Harm and the Deviation from Requirement categories. The numbers in parenthesis in each cell of the matrix are the midpoints of the range.

TABLE 3 - Per Day Factor

Deviation from Requirement	Potential for Harm		
	Minor	Moderate	Major
Minor	0.1	0.2 (0.25)	0.3 (0.35)
	0.2	0.3	0.4
Moderate	0.2 (0.25)	0.3 (0.35)	0.4 (0.55)
	0.3	0.4	0.7
Major	0.3 (0.35)	0.4 (0.55)	0.7 (0.85)
	0.4	0.7	1

The categories for **Potential for Harm** in Table 3 are:

Minor – The characteristics of the violation present a minor threat to beneficial uses, and/or the circumstances of the violation indicate a minor potential for harm.

Moderate – The characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. Most incidents would be considered to present a moderate potential for harm.

Major –The characteristics of the violation present a particularly egregious threat to beneficial uses, and/or the circumstances of the violation indicate a very high potential for harm. Additionally, non-discharge violations involving particularly sensitive habitats should be considered major.

The categories for **Deviation from Requirement** in Table 3 are:

Minor – The intended effectiveness of the requirement remains generally intact (e.g., while the requirement was not met, there is general intent by the discharger to follow the requirement).

Moderate – The intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).

Major – The requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).

For requirements with more than one part, the Water Boards shall consider the extent of the violation in terms of the adverse impact on the effectiveness of the most significant requirement.

For any given requirement, the Deviation from Requirements may vary. For example, if a facility does not have a required response plan or has not submitted a required monitoring report, the deviation would be major. If a facility has a prepared a required plan or submitted the required monitoring report, but significant elements are omitted or missing, the deviation would be moderate. If a facility has a required plan or submitted the required monitoring report with only minor elements missing, the deviation would be minor.

STEP 4 – Adjustment Factors

Violator’s Conduct Factors

There are three additional factors that should be considered for modification of the amount of the initial liability: the violator’s culpability, the violator’s efforts to cleanup or cooperate with regulatory authorities after the violation, and the violator’s compliance history. Not all factors will apply in every liability assessment.

TABLE 4 – Violator’s Conduct Factors	
Factor	Adjustment
Culpability	Discharger’s degree of culpability regarding the violation. Higher liabilities should result from intentional or negligent violations than for accidental, non-negligent violations. A first step is to identify any performance standards (or, in their absence, prevailing industry practices) in the context of the violation. The test is what a reasonable and prudent person would have done or not done under similar circumstances. Adjustment should result in a multiplier between 0.5 to 1.5 , with the lower multiplier for accidental incidents, and higher multiplier for intentional or negligent behavior.
Cleanup and Cooperation	Extent to which the discharger voluntarily cooperated in returning to compliance and correcting environmental damage, including any voluntary cleanup efforts undertaken. Adjustment should result in a multiplier between 0.75 to 1.5 , with the lower multiplier where there is a high degree of cleanup and cooperation, and higher multiplier where this is absent.
History of Violations	Prior history of violations. Where there is a history of repeat violations, a minimum multiplier of 1.1 should be used to reflect this.

After each of the above factors is considered for the violations involved, the applicable factor should be multiplied by the proposed amount for each violation to determine the revised amount for that violation.

Multiple Violations Resulting From the Same Incident

By statute, certain situations that involve multiple violations are treated as a single violation per day, such as a single operational upset that leads to simultaneous violations of more than one pollutant parameter. (Water Code § 13385, sub. (f)(1).) For situations not addressed by statute, a single base liability amount can also be assessed for multiple violations at the discretion of the Water Boards, under the following circumstances:

- a. The facility has violated the same requirement at one or more locations within the facility;
- b. A single operational upset where violations occur on multiple days;
- c. The violation continues for more than one day;

- d. When violations are not independent of one another or are not substantially distinguishable. For such violations, the Water Boards may consider the extent of the violation in terms of the most egregious violation;
- e. A single act may violate multiple requirements, and therefore constitute multiple violations. For example, a construction dewatering discharge to a dewatering basin located on a gravel bar next to stream may violate a requirement that mandates the use of best management practices (BMPs) for sediment and turbidity control, a requirement prohibiting the discharge of soil silt or other organic matter to waters of the State, and a requirement that temporary sedimentation basins be located at least 100 feet from a stream channel. Such an act would constitute three distinct violations that may be addressed with a single base liability amount.

If the violations do not fit the above categories, each instance of the same violation shall be calculated as a separate violation.

Except where statutorily required, multiple violations shall not be grouped and considered as a single base liability amount when those multiple violations each result in a distinguishable economic benefit to the violator.

Multiple Day Violations

For violations that are assessed a civil liability on a per day basis, the initial liability amount should be assessed for each day up to thirty (30) days. For violations that last more than thirty (30) days, the daily assessment can be less than the calculated daily assessment, provided that it is no less than the per day economic benefit, if any, resulting from the violation. For these cases, the Water Board must make express findings that the violation:

- a. Is not causing daily detrimental impacts to the environment or the regulatory program;
- b. Results in no economic benefit from the illegal conduct that can be measured on a daily basis; or,
- c. Occurred without the knowledge or control of the violator, who therefore did not take action to mitigate or eliminate the violation.

If one of the above findings is made, an alternate approach to penalty calculation for multiple day violations may be used. In these cases, the liability shall not be less than an amount that is calculated based on an assessment of the initial Total Base Liability Amount for the first day of the violation, plus an assessment for each five day period of violation until the 30th day, plus an assessment for each thirty (30) days of violation. For example, a violation lasting sixty-two (62) days would accrue a total of 8 day's worth of violations, based on a per day assessment for day 1, 5, 10, 15, 20, 25, 30, and 60. Similarly, a violation lasting ninety-nine (99) days would accrue a total of 9 day's worth of violations, based on a per day assessment for day 1, 5, 10, 15, 20, 25, 30, 60, and 90.

STEP 5 – Determination of Total Base Liability Amount

The Total Base Liability Amount will be determined by adding the amounts above for each violation, though this may be adjusted for multiple day violations as noted above. Depending on the statute controlling the liability assessment for a violation, the liability can be assessed as either a per day penalty, a per gallon penalty, or both.

STEP 6 – Ability to Pay and Ability to Continue in Business

If the Water Boards have sufficient financial information necessary to assess the violator's ability to pay the Total Base Liability Amount or to assess the effect of the Total Base Liability Amount on the violator's ability to continue in business, the Total Base Liability Amount may be adjusted to address the ability to pay or to continue in business.

The ability of a discharger to pay an ACL is determined by its revenues and assets. In most cases, it is in the public interest for the discharger to continue in business and bring its operations into compliance. If there is strong evidence that an ACL would result in widespread hardship to the service population or undue hardship to the discharger, the amount of the assessment may be reduced on the grounds of ability to pay. For a violation addressed pursuant to California Water Code section 13385, the adjustment for ability to pay and ability to continue in business can not reduce the liability to less than the economic benefit amount.

If staff anticipates that the discharger's ability to pay or ability to continue in business will be a contested issue in the proceeding, staff should conduct a simple preliminary asset search prior to issuing the ACL complaint. Staff should submit a summary of the results (typically as a finding in the Complaint or as part of staff's initial transmittal of evidence to the discharger), in order to put some evidence about these factors into the record for the proceeding and to give the discharger an opportunity to submit additional financial evidence if it chooses. If staff does not put any financial evidence into the record initially and the discharger later contests the issue, staff may then either choose to rebut any financial evidence submitted by the discharger, or submit some financial evidence and provide an opportunity for the discharger to submit its own rebuttal evidence. In some cases, this may necessitate a continuance of the proceeding to provide the discharger with a reasonable opportunity to rebut the staff's evidence. As a general practice, in order to maintain the transparency and legitimacy of the Water Boards' enforcement programs, any financial evidence that the discharger chooses to submit in an enforcement proceeding will generally be treated as a public record.

STEP 7 – Other Factors As Justice May Require

If the Water Board believes that the amount determined using the above factors is inappropriate, the amount may be adjusted under the provision for "other factors as justice may require," but only if express findings are made to justify this. Examples of circumstances warranting an adjustment under this step are:

- a. The discharger has provided, or Water Board staff has identified, other pertinent information not previously considered that indicates a higher or lower amount is justified.
- b. A consideration of issues of environmental justice indicates that the amount would have a disproportionate impact on a particular disadvantaged group.
- c. The calculated amount is entirely disproportionate to assessments for similar conduct made in the recent past using the same Enforcement Policy.

Costs of Investigation and Enforcement Adjustment

The costs of investigation and enforcement are "other factors as justice may require", and should be added to the liability amount. These costs may include the cost of investigating the violation, preparing the enforcement action, participating in settlement negotiations, and putting on a hearing, including any expert witness expenses. Such costs are the total costs incurred by

the Water Boards enforcement or prosecution staff, including legal costs that are reasonably attributable to the enforcement action. Costs include the total financial impact on the staff of the Water Board, not just wages, and should include benefits and other indirect overhead costs.

STEP 8 – Economic Benefit

The Economic Benefit Amount shall be estimated for every violation. Economic benefit is any savings or monetary gain derived from the act or omission that constitutes the violation. In cases where the violation occurred because the discharger postponed improvements to a treatment system, failed to implement adequate control measures (such as BMPs), or did not take other measures needed to prevent the violations, the economic benefit may be substantial. Economic benefit should be calculated as follows:

- a. Determine those actions required to comply with a permit or order of the Water Boards, an enforcement order, or an approved facility plan, or that were necessary in the exercise of reasonable care, to prevent a violation of the Water Code. Needed actions may have been such things as capital improvements to the discharger's treatment system, implementation of adequate BMPs, or the introduction of procedures to improve management of the treatment system.
- b. Determine when and/or how often these actions should have been taken as specified in the order or approved facility plan, or as necessary to exercise reasonable care, in order to prevent the violation.
- c. Estimate the type and cost of these actions. There are two types of costs that should be considered; delayed costs and avoided costs. Delayed costs include expenditures that should have been made sooner (e.g., for capital improvements such as plant upgrades and collection system improvements, training, development of procedures and practices) but that the discharger is still obligated to perform. Avoided costs include expenditures for equipment or services that the discharger should have incurred to avoid the incident of noncompliance, but that are no longer required. Avoided costs also include ongoing costs such as needed additional staffing from the time determined under step "b" to the present, treatment or disposal costs for waste that cannot be cleaned up, and the cost of effective erosion control measures that were not implemented as required.
- d. Calculate the present value of the economic benefit. The economic benefit is equal to the present value of the avoided costs plus the "interest" on delayed costs. This calculation reflects the fact that the discharger has had the use of the money that should have been used to avoid the instance of noncompliance. This calculation should be done using the USEPA's BEN² computer program (the most recent

² USEPA developed the BEN model to calculate the economic benefit a violator derives from delaying and/or avoiding compliance with environmental statutes. Funds not spent on environmental compliance are available for other profit-making activities or, alternatively, a defendant avoids the costs associated with obtaining additional funds for environmental compliance. BEN calculates the economic benefits gained from delaying and avoiding required environmental expenditures such as capital investments, one-time non-depreciable expenditures, and annual operation and maintenance costs.

BEN uses standard financial cash flow and net present value analysis techniques based on generally accepted financial principles. First, BEN calculates the costs of complying on time and of complying late adjusted for inflation and tax deductibility. To compare the on time and delayed compliance costs in a common measure, BEN calculates the present value of both streams of costs, or "cash flows," as of the date of initial noncompliance. BEN derives these values by discounting the annual cash flows at an
(Continued)

version is accessible at <http://www.waterboards.ca.gov/plnspols/docs/wqplans/benmanual.pdf>) unless the Water Board determines, or the discharger demonstrates to the satisfaction of the Water Board, that, based on case-specific factors, an alternate method is more appropriate for a particular situation. However, in more complex cases, such as where the economic benefit may include revenues from continuing production when equipment used to treat discharges should have been shut down for repair or replacement, the total economic benefit should be determined by experts available from the Office of Research Planning and Performance or outside experts retained by the enforcement staff.

- e. Determine whether the discharger has gained any other economic benefits. These may include income from continuing production when equipment used to treat discharges should have been shut down for repair or replacement.

The Water Boards should not adjust the economic benefit for expenditures by the discharger to abate the effects of the unauthorized conduct or discharge, or the costs to come into or return to compliance. In fact, the costs of abatement may be a factor that demonstrates the economic extent of the harm from the violation and, therefore, may be a factor in upwardly adjusting any monetary liability as a benefit from noncompliance. The discharger's conduct relating to abatement is appropriately considered under "cleanup and cooperation" liability factor.

The Economic Benefit Amount should be compared to the adjusted Total Base Liability Amount. The adjusted Total Base Liability Amount shall be at least 10 percent higher than the Economic Benefit Amount so that liabilities are not construed as the cost of doing business and that the assessed liability provides a meaningful deterrent to future violations.

STEP 9 – Maximum and Minimum Liability Amounts

For all violations, the statute sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed, and shall be described in any ACL complaint and in any order imposing liability. Where the amount proposed for a particular violation exceeds to statutory maximum, the amount must be reduced to that maximum. Similarly, the minimum statutory amount may require raising the amount being proposed unless there is a specific provision that allows assessment below the minimum. In such cases, the reasons for assigning a liability amount below this minimum must be documented in the resolution adopting the ACL.

STEP 10 – Final Liability Amount

The final liability amount consists of the added amounts for each violation, with any allowed adjustments, provided the amounts are within the statutory minimum and maximum amounts.

The administrative record must reflect how the Water Board arrived at the final liability amount. In particular, where adjustments are made to the initial amount proposed in the ACL complaint, the record should clearly reflect the Water Board's considerations, as the staff report or complaint may not reflect those considerations, or for any adjustments that are made at hearing

average of the cost of capital throughout this time period. BEN can then subtract the delayed-case present value from the on-time-case present value to determine the initial economic benefit as of the noncompliance date. Finally, BEN compounds this initial economic benefit forward to the penalty payment date at the same cost of capital to determine the final economic benefit of noncompliance.

that are different from those recommended in the ACL complaint or that further support the final liability amount in the administrative civil liability order.

B. Settlement Considerations

The liabilities resulting from the above methodology are for adoption by the Water Boards after formal administrative proceedings. The calculated liabilities may be adjusted as a result of settlement negotiations with a violator. It is not the goal of the Enforcement Policy to address the full range of considerations that should be entertained as part of a settlement. It is appropriate to adjust the administrative civil liabilities calculated pursuant to the methodology in consideration of hearing and/or litigation risks including: equitable factors, mitigating circumstances, evidentiary issues, or other weaknesses in the enforcement action that the prosecution reasonably believes may adversely affect the team's ability to obtain the calculated liability from the administrative hearing body. Ordinarily, these factors will not be fully known until after the issuance of an administrative civil liability complaint or through pre-filing settlement negotiations with an alleged violator. These factors shall be generally identified in any settlement of an administrative civil liability that seeks approval by a Water Board or its designated representative.

Factors that should not affect the amount of the calculated civil liability sought from a violator in settlement include, but are not limited to, the following:

1. A general desire to avoid hearing or minimize enforcement costs;
2. A belief that members of a Water Board will not support a proposed liability before that Water Board has considered the specific merits of the enforcement case or a similar case;
3. A desire to avoid controversial matters;
4. The fact that the initiation of the enforcement action is not as timely as it might have been under ideal circumstances (timeliness of the action as it affects the ability to present evidence or other timeliness considerations are properly considered); or
5. The fact that a water body affected by the violation is already polluted or impaired.

Except as specifically addressed in this Policy, nothing in this Policy is intended to limit the use of Government Code 11415.60

C. Other Administrative Civil Liability Settlement Components

In addition to a reduction of administrative civil liabilities, a settlement can result in the permanent suspension of a portion of the liability in exchange for the performance of a Supplemental Environmental Project (see the State Water Board's Water Quality Control Policy on Supplemental Environmental Projects) or an Enhanced Compliance Action (see Section IX).

As far as the scope of the settlement is involved, the settlement resolves only the claims that are made or could have been made based on the specific facts alleged in the ACL complaint. A settlement shall never include the release of any unknown claims or a waiver of rights under Civil Code section 1542.

VII. MANDATORY MINIMUM PENALTIES FOR NPDES VIOLATIONS

Mandatory penalty provisions are required by California Water Code section 13385, subdivisions (h) and (i) for specified violations of NPDES permits. For violations that are subject to mandatory minimum penalties, the Water Boards must assess an ACL for the mandatory minimum penalty or for a greater amount. California Water Code section 13385(h) requires that a mandatory minimum penalty of \$3,000 be assessed by the Regional Water Boards for each serious violation. A serious violation is any waste discharge that exceeds the effluent limitation for a Group I pollutant by 40 percent or more, or a Group II pollutant by 20 percent or more (see Appendices C and D), or a failure to file certain discharge monitoring reports for a complete period of 30 days (Wat. Code §§ 13385, subd. (h)(2), 13385.1.). Section VII.D. of this Policy addresses special circumstances related to discharge monitoring reports. Section VII.E. of this Policy addresses situations where the effluent limitation for a pollutant is less than or equal to the quantitation limit.

California Water Code section 13385(i) requires that a mandatory minimum penalty of \$3,000 be assessed by the Regional Water Boards for each non-serious violation, not counting the first three violations. A non-serious violation occurs if the discharger does any one of the following four or more times in any period of 180 days:

- (a) violates a WDR effluent limitation;
- (b) fails to file a report of waste discharge pursuant to California Water Code section 13260;
- (c) files an incomplete report of waste discharge pursuant to California Water Code section 13260; or
- (d) violates a whole effluent toxicity effluent limitation where the WDRs do not contain pollutant-specific effluent limitations for any toxic pollutants.

A. Timeframe for Issuance of Mandatory Minimum Penalties (MMPs)

The intent of these provisions of the California Water Code is to assist in bringing the State's permitted facilities into compliance with WDRs. The Water Boards should issue MMPs within eighteen months of the time that the violations qualify as mandatory minimum penalty violations. The Water Boards shall expedite MMP issuance if (a) the discharger qualifies as a small community with financial hardship, or (b) the total proposed mandatory penalty amount is \$30,000 or more. Where the NPDES Permit is being revoked or rescinded because the discharger will no longer be discharging under that permit, the Water Boards should ensure that all outstanding MMPs for that discharger are issued prior to termination of its permit to discharge.

B. MMPs for Small Communities

Except as provided below, the Water Boards do not have discretion in assessing MMPs and must initiate enforcement against all entities that accrue a violation. However, California Water Code section 13385, subdivision (k), provides an alternative to assessing MMPs against a POTW that serves a small community. Under this alternative, the Regional Water Boards may allow the POTW to spend an amount equivalent to the MMP toward a compliance project that is designed to correct the violation.

A POTW serving a small community is a POTW serving a community that has a financial hardship and that:

1. Has a population of 10,000 or fewer people or
2. Lies completely within one or more rural counties.³

A POTW serving incorporated areas completely within one or more rural counties is considered a POTW serving a small community.

“Financial hardship” means that the community served by the POTW meets one of the following criteria:

- Median household income⁴ for the community is less than 80 percent of the California median household income;
- The community has an unemployment rate⁵ of 10 percent or greater; or
- Twenty percent of the population is below the poverty level.⁶

“Median household income,” “unemployment rate,” and “poverty level” of the population served by the POTW are based on the most recent U.S. Census block group⁷ data or a local survey approved by the Regional Water Board in consultation with the State Water Board.

“Rural county” means a county classified by the Economic Research Service, United States Department of Agriculture (ERS, USDA) with a rural-urban continuum code of four through nine. The table below identifies qualified rural counties at the time this Policy was adopted. The list of qualified rural counties may change depending on reclassification by ERS, USDA. Consult the classification by ERS, USDA in effect at the time the enforcement action is taken.

³ The determination of the size of population served by the POTW and “rural county” status shall be made as of the time the penalty is assessed, not as of the time the underlying violations occurred.

⁴ **Median household income**

The median income divides the income distribution into two equal groups, one having incomes above the median and the other having incomes below the median.

⁵ **Unemployed**

All civilians, 16 years and older, are classified as unemployed if they (1) were neither "at work" nor "with a job but not at work" during the reference week, (2) were actively looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who (1) did not work at all during the reference week, (2) were waiting to be called back to a job from which they had been laid off, and (3) were available for work except for temporary illness.

⁶ **Poverty**

Following the Office of Management and Budget's Directive 14, the Census Bureau uses a set of income thresholds that vary by family size and composition to detect who is poor. If the total income for a family or unrelated individual falls below the relevant poverty threshold, then the family or unrelated individual is classified as being "below the poverty level."

⁷ **Block group**

A subdivision of a census tract (or, prior to 2000, a block numbering area). A block group is the smallest geographic unit for which the Census Bureau tabulates sample data. A block group consists of all the blocks within a census tract beginning with the same number. Example: block group 3 consists of all blocks within a 2000 census tract numbering from 3000 to 3999. In 1990, block group 3 consisted of all blocks numbered from 301 to 399Z.

Qualified Rural Counties		
Alpine	Inyo	Nevada
Amador	Lake	Plumas
Calaveras	Lassen	Sierra
Colusa	Mariposa	Siskiyou
Del Norte	Mendocino	Tehama
Glenn	Modoc	Trinity
Humboldt	Mono	Tuolumne
<i>Based on 2003 USDA Rural-Urban Continuum Codes for California</i>		

For purposes of California Water Code section 13385, subdivision (k)(2), the Regional Water Boards are hereby delegated the authority to determine whether a POTW, that depends primarily on residential fees (e.g., connection fees, monthly service fees) to fund its wastewater treatment facility (operations, maintenance, and capital improvements), is serving a small community, in accordance with the requirements set forth in this Policy.

The State Water Board will continue to make the determination of whether a POTW, that does not depend primarily on residential fees to fund its wastewater treatment facility, is serving a small community for purposes of California Water Code section 13385 (k)(2).

If a POTW believes that the U.S. Census data do not accurately represent the population served by the POTW or that additional factors such as low population density in its service area should be considered, the POTW may present an alternative justification to the State or Regional Water Board for designation as a “POTW serving a small community.” The justification must include a map of service area boundaries, a list of properties, the number of households, the number of people actually served by the POTW, and any additional information requested by the State or Regional Water Board. The Regional Water Board shall consult with the State Water Board when making a determination based upon these additional, site-specific considerations.

C. Single Operational Upset

In accordance with California Water Code section 13385, subdivision (f)(2), for the purposes of MMPs only, a single operational upset that leads to simultaneous violations of one or more pollutant parameters over multiple days shall be treated as a single violation. The Regional Water Board shall apply the following US EPA Guidance in determining if a single operational upset occurred: “Issuance of Guidance Interpreting Single Operational Upset” Memorandum from the Associate Enforcement Counsel, Water Division, U.S.EPA, September 27, 1989 (excerpted below).

US EPA defines “single operational upset” as “an exceptional incident which causes simultaneous, unintentional, unknowing (not the result of a knowing act or omission), temporary noncompliance with more than one CWA effluent discharge pollutant parameter. Single operational upset does not include... noncompliance to the extent caused by improperly designed or inadequate treatment facilities”. The US EPA Guidance further defines an “exceptional” incident as a “non-routine malfunctioning of an otherwise generally compliant facility.” Single operational upsets include such things as an upset caused by a sudden violent storm, some other exceptional event, or a bursting tank. A single upset may result in violations of multiple pollutant parameters. The discharger has the burden of demonstrating that the violations were caused by a single operational upset. A finding that a single operational upset has occurred is not a defense to liability, but may affect the number of violations.

D. Defining a “Discharge Monitoring Report” in Special Circumstances Under California Water Code 13385.1

Section 13385.1(a)(1) states “for the purposes of subdivision (h) of section 13385, a ‘serious violation’ also means a failure to file a discharge monitoring report required pursuant to section 13383 for each complete period of 30 days following the deadline for submitting the report, if the report is designed to ensure compliance with limitations contained in waste discharge requirements that contain effluent limitations.”

The legislative history of section 13385.1 indicates that the Legislature enacted the statute primarily to ensure better reporting by dischargers who might otherwise avoid penalties for violations of their NPDES permits by failing to submit monitoring reports that could disclose permit violations.

Because penalties under section 13385.1 are assessed for each complete period of thirty days following the deadline for submitting a report, penalties may potentially accrue for an indefinite time period. Dischargers who fail to conduct their required monitoring cannot go back and recreate and submit the data for a prior monitoring period. In such a case, an MMP for a missing report will continue to be assessed and reassessed for each 30 day period following the deadline for submission until an Administrative Civil Liability Complaint for MMPs is issued. This Policy is designed to assist dischargers by stopping the accrual of penalties for late or missing reports under the special circumstances described below. Nevertheless, under these circumstances, the discharger has the burden of submitting the required documentation pursuant to this Policy.

The following subsections provide additional guidance on the definition of a “discharge monitoring report,” for the purposes of subdivision (a) of section 13385.1 only, in situations where: (1) there was a discharge to waters of the United States, but the discharger failed to conduct any monitoring during that monitoring period, or (2) there was no discharge to waters of the United States during the relevant monitoring period.

1. Defining a “Discharge Monitoring Report” Where There Is a Discharge to Waters of the United States and the Discharger Fails to Conduct Any Monitoring During the Monitoring Period

For purposes of section 13385.1, in circumstances where a discharge to waters of the United States did occur, but where the discharger failed to conduct any monitoring during the relevant monitoring period, a “discharge monitoring report” shall include a written statement to the Regional Water Board, signed under penalty of perjury in accordance with 40 CFR 122.41(k) and 40 CFR 122.22(a)(1), stating:

- a. That no monitoring was conducted during the relevant monitoring period;
- b. The reason(s) the required monitoring was not conducted; and
- c. If the written statement is submitted after the deadline for submitting the discharge monitoring report, the reason(s) the required discharge monitoring report was not submitted to the Regional Water Board by the requisite deadline.

Upon the request of the Regional Water Board, the discharger may be required to support the written statement with additional explanation or evidence. Requiring a discharger to state under penalty of perjury that it did not conduct monitoring for the required period ensures that the discharger is not conducting monitoring and withholding data indicating there are effluent

limitation violations. This approach may not be used if the discharger did conduct monitoring during the monitoring period that it is required to report to the Regional Water Board because the results of that monitoring, even if incomplete, must be submitted to the Regional Water Board. This approach is consistent with the original legislative purpose of section 13385.1.

The written statement shall be treated as a “discharge monitoring report” for purposes of section 13385.1(a). MMPs for late or missing discharge monitoring reports assessed for each 30 day period will cease accruing upon the date the written statement is received by the Regional Water Board. While the submission of the written statement provides a cut-off date for MMPs assessed under 13385.1, the Regional Water Board may impose additional discretionary administrative civil liabilities pursuant to section 13385(a)(3).

2. Defining a “Discharge Monitoring Report” Where There Is No Discharge to Waters of the United States

Some waste discharge requirements or associated monitoring and reporting programs for episodic or periodic discharges require the submission of either a discharge monitoring report, if there were discharges during the relevant monitoring period, or a report documenting that no discharge occurred, if there were no discharges.

A report whose submittal is required to document that no discharge to waters of the United States occurred during the relevant monitoring period is not a “discharge monitoring report” for purposes of section 13385.1(a). Under these circumstances, that report would not ensure compliance with limitations contained in waste discharge requirements that contain effluent limitations, and therefore, the late submittal of such a report would be subject to discretionary civil liabilities, but would not be subject to MMPs.

As a matter of practice, however, if such a report has not been received, the Regional Water Board may presume that there were discharges during the relevant monitoring period and should consider imposing MMPs for the failure to timely submit a discharge monitoring report. The Regional Water Board shall not take final action to impose the MMP if the discharger submits a written statement to the Regional Water Board, signed under penalty of perjury in accordance with 40 CFR 122.41(k) and 40 CFR 122.22(a)(1), stating:

- a. That there were no discharges to waters of the United States during the relevant monitoring period; and
- b. The reason(s) the required report was not submitted to the Regional Water Board by the deadline.

Upon the request of the Regional Water Board, the discharger may be required to support the written statement with additional explanation or evidence. Requiring a discharger to state under penalty of perjury that it did not discharge during the relevant monitoring period ensures that a discharger is not discharging and conducting monitoring and then withholding data indicating there are effluent limitation violations.

If such a statement is submitted, discretionary administrative civil liabilities, which the Regional Water Boards may assess under section 13385(a)(3), will cease upon the date the written statement is received by the Regional Water Board.

E. Defining a “Serious Violation” in Situations Where the Effluent Limitation Is Less Than or Equal to the Quantitation Limit

1. For discharges of pollutants subject to the State Water Board’s “Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California,” or the “California Ocean Plan”, where the effluent limitation for a pollutant is lower than the applicable Minimum Level, any discharge that: (1) equals or exceeds the Minimum Level; and (2) exceeds the effluent limitation by 40 percent or more for a Group 1 pollutant or by 20 percent or more for a Group 2 pollutant, is a serious violation for the purposes of California Water Code section 13385(h)(2).
2. For discharges of pollutants that are not subject to the State Water Board’s “Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California,” or the California Ocean Plan (e.g., pollutants that are not addressed by the applicable plan) where the effluent limitation for a pollutant is lower than the quantitation limit specified or authorized in the applicable waste discharge requirements or monitoring requirements, any discharge that: (1) equals or exceeds the quantitation limit; and (2) exceeds the effluent limitation by 40 percent or more for a Group 1 pollutant or by 20 percent or more for a Group 2 pollutant, is a serious violation for the purposes of California Water Code section 13385(h)(2).

VIII. COMPLIANCE PROJECTS (CPs)

A Compliance Project (CP) is a project designed to address problems related to the violation and bring the discharger back into compliance in a timely manner. CPs shall only be considered where they are expressly authorized by statute. At the time of the development of this Policy, CPs are expressly authorized by statute only in connection with MMPs for small communities with a financial hardship. (Wat. Code, § 13385, subd. (k).) Unless expressly authorized by future legislation, CPs may not be considered in connection with other ACLs. Absent such statutory authorization, if the underlying problem that caused the violations addressed in the ACL has not been corrected, the appropriate manner for compelling compliance is through an enforcement order with injunctive terms such as a Cleanup and Abatement Order (CAO), Cease and Desist Order (CDO), or Time Schedule Order (TSO).

It is the policy of the State Water Board that the following conditions shall apply to CPs authorized under California Water Code section 13385, subdivision (k):

1. The amount of the penalty that is suspended shall not exceed the cost necessary to complete the CP;
2. The discharger must spend an amount of money on the CP that is equal to or greater than the amount of the penalty that is suspended. Grant funds may be used only for the portion of the cost of the CP that exceeds the amount of the penalty to be suspended;
3. Where implementation of the CP began prior to the assessment of an MMP, all or a portion of the penalty may be suspended under these conditions:
 - a. The cost of the CP yet to be expended is equal to or greater than the penalty that is suspended;
 - b. The problem causing the underlying violations will be corrected by the project;

- c. The underlying violations occurred during, or prior to the initiation of, project implementation;
 - d. The completion date of the project is specified by an enforcement order (a CDO, CAO, TSO, or ACL Order) adopted at or before the time the penalty is assessed; and
 - e. The deadline for completion of the project is within 5 years of the date of the assessment of the MMP.
4. CPs may include, but are not limited to:
- a. Constructing new facilities;
 - b. Upgrading or repairing existing facilities;
 - c. Conducting water quality investigations or monitoring;
 - d. Operating a cleanup system;
 - e. Adding staff;
 - f. Providing training;
 - g. Conducting studies; and
 - h. Developing operation, maintenance, or monitoring procedures.
5. CPs shall be designed to bring the discharger back into compliance in a five-year period and to prevent future noncompliance.
6. A CP is a project that the discharger is otherwise obligated to perform, independent of the ACL.
7. CPs must have clearly identified project goals, costs, milestones, and completion dates and these must be specified in an enforceable order (ACL Order, CDO, CAO, or TSO).
8. CPs that will last longer than one year must have quarterly reporting requirements.
9. Upon completion of a CP, the discharger must submit a final report declaring such completion and detailing fund expenditures and goals achieved.
10. If the discharger completes the CP to the satisfaction of the Water Board by the specified date, the suspended penalty amount is dismissed.
11. If the CP is not completed to the satisfaction of the Water Board on the specified date the amount suspended becomes due and payable to the State Water Pollution Cleanup and Abatement Account (CAA) or other fund or account as authorized by statute.
12. The ACL complaint or order must clearly state that payment of the previously suspended amount does not relieve the discharger of its independent obligation to take necessary actions to achieve compliance.

IX. ENHANCED COMPLIANCE ACTIONS (ECAs)

Enhanced Compliance Actions (ECAs) are projects that enable a discharger to make capital or operational improvements beyond those required by law, and are separate from projects designed to merely bring a discharger into compliance. The Water Boards may approve a settlement with a discharger that includes suspension of a portion of the monetary liability of a discretionary ACL for completion of an ECA. Except as specifically provided below, any such settlement is subject to the rules that apply to Supplemental Environmental Projects.

For these ECAs the Water Boards shall require the following:

1. ECAs must have clearly identified project goals, costs, milestones, and completion dates and these must be specified in the ACL order.
2. ECAs that will last longer than one year must have at least quarterly reporting requirements.
3. Upon completion of an ECA, the discharger must submit a final report declaring such completion and detailing fund expenditures and goals achieved.
4. If the discharger completes the ECA to the satisfaction of the Water Board by the specified date, the suspended amount is dismissed.
5. If the ECA is not completed to the satisfaction of the Water Board on the specified date the amount suspended becomes due and payable to the CAA or other fund or account as authorized by statute.
6. The ACL complaint or order must clearly state that payment of the previously suspended amount does not relieve the discharger of its independent obligation to take necessary actions to achieve compliance.

If an ECA is utilized as part of a settlement of an enforcement action against a discharger, the monetary liability that is not suspended shall be no less than the amount of the economic benefit that the discharger received from its unauthorized activity, plus an additional amount that is generally consistent with the factors for monetary liability assessment to deter future violations.

X. DISCHARGER VIOLATION REPORTING

For permitted discharges, all violations must be reported in self-monitoring reports in a form acceptable to the Regional Water Board. Voluntary disclosure of violations that are not otherwise required to be reported to the Water Boards shall be considered by the Water Boards when determining the appropriate enforcement response.

Falsification or misrepresentation of such voluntary disclosures shall be brought to the attention of the appropriate Regional Water Board for possible enforcement action.

XI. VIOLATION AND ENFORCEMENT DATA

The Water Boards will ensure that all violations and enforcement actions are documented in the appropriate Water Board data management system. Sufficient information will be collected and maintained regarding regulated facilities and sites to allow preparation of internal and external reporting of violation and enforcement information, and development and reporting of performance measures regarding the Water Boards' enforcement activities. To ensure timely collection of this information, all violations will be entered within 10 days of discovery of the violation, and all enforcement actions will be entered within 20 days of the date of the enforcement action.

XII. ENFORCEMENT REPORTING

In order to inform the public of State and Regional Water Boards' performance with regard to enforcement activities, there are a number of legislatively mandated and elective reports the Water Boards are committed to producing on a regular basis. See Appendix B for additional information on these reports.

XIII. POLICY REVIEW AND REVISION

It is the intent of the State Water Board that this Policy be reviewed and revised, as appropriate, at least every five years. Nothing in this Policy is intended to preclude revisions, as appropriate, on an earlier basis.

APPENDIX A: ENFORCEMENT ACTIONS

A. Standard Language

In order to provide a consistent approach to enforcement throughout the State, enforcement orders shall be standardized to the extent appropriate. The State Water Board will create model enforcement orders containing standardized provisions for use by the Regional Water Boards. Regional Water Boards shall use the models, modifying terms and conditions only as appropriate to fit the specific circumstances related to a discharge and to be consistent with Regional Water Board plans and policies.

B. Informal Enforcement Actions

An informal enforcement action is any enforcement action taken by Water Board staff that is not defined in statute or regulation. Informal enforcement action can include any form of communication (oral, written, or electronic) between Water Board staff and a discharger concerning an actual, threatened, or potential violation. Informal enforcement actions cannot be petitioned to the State Water Board.

The purpose of an informal enforcement action is to quickly bring an actual, threatened, or potential violation to the discharger's attention and to give the discharger an opportunity to return to compliance as soon as possible. The Water Board may take formal enforcement action in place of, or in addition to, informal enforcement actions. Continued noncompliance, particularly after informal actions have been unsuccessful, will result in the classification of the next violation as either class I priority or a class II violation.

1. Oral and Written Contacts

For many violations, the first step is an oral contact. This involves contacting the discharger by phone or in person and informing the discharger of the specific violations, discussing how and why the violations have occurred or may occur, and discussing how and when the discharger will correct the violation and achieve compliance. Staff must document such conversations in the facility case file and in the enforcement database.

A letter or email is often appropriate as a follow-up to, or in lieu of, an oral contact. Letters or emails, signed by staff or by the appropriate senior staff, should inform the discharger of the specific violations and, if known to staff, discuss how and why the violations have occurred or may occur. This letter or email should ask how and when the discharger will correct the violation and achieve compliance. The letter or email should require a prompt response and a certification from the discharger that the violation(s) has been corrected. In many cases, an email response may not be sufficient and a formal written response will be required. Correction of the violation by the discharger shall be recorded in the enforcement database.

Oral enforcement actions and enforcement letters or emails shall not include language excusing the violation or modifying a compliance date in waste discharge requirements (WDRs) or other orders issued by the Water Boards.

2. Notices of Violation (NOV)

The NOV letter is the most significant level of informal enforcement action and should be used only where a violation has actually occurred. An NOV must be signed by the appropriate staff and mailed to the discharger(s) by certified mail. In cases where the discharger has requested that its consultant be notified of Regional Water Board actions, the consultant should also receive a copy of the NOV. The NOV letter shall include a description of specific violation, a summary of potential enforcement options available to address noncompliance (including potential ACL assessments), and a request for a certified, written response by a specified date that either confirms the correction of the violation or identifies a date by which the violation will be corrected. The NOV can be combined with a request for technical information pursuant to California Water Code section 13267. The summary of potential enforcement options must include appropriate citations to the California Water Code and must specify that the Regional Water Board reserves the right to take any enforcement action authorized by law. When combining NOV's and CWC section 13267 requests, it should be noted that only requests made pursuant to section 13267 are petitionable to the State Water Board.

C. Formal Enforcement Actions

Formal enforcement actions are statutorily based actions to address a violation or threatened violation of water quality laws, regulations, policies, plans, or orders. The actions listed below present options available for enforcement.

1. Notices to Comply

Water Code section 13399 *et seq.* deals with statutorily defined "minor" violations. When dealing with such a "minor" violation, a Notice to Comply is generally the only means by which the State Water Board or Regional Water Board can commence an enforcement action. Because these "minor" violations are statutorily defined, they do not directly correlate with the classification system defined in Section II of this Policy. Typically, however, "minor" violations may be considered equivalent to Class III violations.

A violation is determined to be "minor" by the State Water Board or the Regional Water Board after considering factors defined in California Water Code section 13399, subdivisions (e) and (f), and the danger the violation poses to, or the potential that the violation presents for endangering human health, safety, welfare, or the environment.

- a. Under most circumstances the violations listed below are considered to be "minor" violations:
 - (1) Inadvertent omissions or deficiencies in recordkeeping that do not prevent a Water Board from determining whether compliance is taking place.
 - (2) Records (including WDRs) not being physically available at the time of the inspection, provided the records do exist and can be produced in a reasonable time.
 - (3) Inadvertent violations of insignificant administrative provisions that do not involve a discharge of waste or a threat thereof.
 - (4) Violations that result in an insignificant discharge of waste or a threat thereof; provided, however, that there is no significant threat to human health, safety, welfare, or the environment.

- b. A violation is not considered “minor” if it is a class I priority violation as described in Section III of this Policy or includes any of the following:
 - (1) Any knowing, willful, or intentional violation of Division 7 (commencing with Section 13000) of the California Water Code.
 - (2) Any violation that enables the violator to benefit economically from noncompliance, either by realizing reduced costs or by gaining an unfair competitive advantage.
 - (3) Chronic violations or violations committed by a recalcitrant violator.
 - (4) Violations that cannot be corrected within 30 days.

2. Notices of Stormwater Noncompliance

The Stormwater Enforcement Act of 1998 (Wat. Code, § 13399.25 et seq.) requires that each Regional Water Board provide a notice of noncompliance to any stormwater dischargers who have failed to file a notice of intent to obtain coverage, a notice of non-applicability, a construction certification, or annual reports. If, after two notices, the discharger fails to file the applicable document, the Regional Water Board shall issue a complaint for administrative civil liability against the discharger. Alternatively, the Water Boards may enforce most of these violations under Water Code section 13385.

3. Technical Reports and Investigations

California Water Code sections 13267, subdivision (b), and 13383 allow the Water Boards to conduct investigations and to require technical or monitoring reports from any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste in accordance with the conditions in the section. When requiring reports pursuant to Water Code section 13267, subdivision (b), the Water Board must ensure that the burden, including costs of the reports bears a reasonable relationship to the need for the reports and the benefits to be obtained from them. Further, the Water Board shall provide a written explanation with regard to the need for the reports and identify the evidence that supports requiring them.

Failure to comply with requirements made pursuant to California Water Code section 13267, subdivision (b), may result in administrative civil liability pursuant to California Water Code section 13268. Failure to comply with orders made pursuant to California Water Code section 13383 may result in administrative civil liability pursuant to California Water Code section 13385. Sections 13267, subdivision (b) and 13383 requirements are enforceable when signed by the Executive Officer or Executive Director of the Water Boards or their delegates.

4. Cleanup and Abatement Orders (CAOs)

Cleanup and Abatement Orders (CAOs) are adopted pursuant to California Water Code section 13304. CAOs may be issued to any person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a Regional Water Board or the State Water Board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the State and creates, or threatens to create, a condition of pollution or nuisance (discharger). The CAO requires the discharger to clean up the waste or abate the effects of the waste, or both, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts.

Regional Water Boards shall comply with State Water Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges under Water Code Section 13304," in issuing CAOs. CAOs shall require dischargers to clean up the pollution to background levels or the best water quality that is reasonable if background levels of water quality cannot be restored in accordance with Resolution No. 92-49. At a minimum, cleanup levels must be sufficiently stringent to fully support beneficial uses, unless the Regional Water Board allows a containment zone. In the interim, and if restoration of background water quality cannot be achieved, the CAO shall require the discharger(s) to abate the effects of the discharge.

Violations of CAOs should trigger further enforcement in the form of an ACL, a TSO under California Water Code section 13308, or a referral to the Attorney General for injunctive relief or monetary remedies.

5. Section 13300 Time Schedule Orders (TSOs)

Pursuant to California Water Code section 13300, a Regional Water Board can require the discharger to submit a time schedule that sets forth the actions the discharger will take to address actual or threatened discharges of waste in violation of requirements. Typically, those schedules, after any appropriate adjustments by the Regional Water Board, are then memorialized in an order. TSOs that require submission of technical and monitoring reports should state that the reports are required pursuant to California Water Code section 13267.

6. Section 13308 Time Schedule Orders (13308 TSOs)

California Water Code section 13308 authorizes the Regional Water Board to issue a Section 13308 Time Schedule Order (13308 TSO) that prescribes, in advance, a civil penalty if compliance is not achieved in accordance with the time schedule. The Regional Water Board may issue a 13308 TSO if there is a threatened or continuing violation of a cleanup and abatement order, cease and desist order, or any requirement issued under California Water Code sections 13267 or 13383. The penalty must be set based on an amount reasonably necessary to achieve compliance and may not contain any amount intended to punish or redress previous violations. The 13308 TSO provides the Regional Water Boards with their primary mechanism for motivating compliance, and if necessary, assessing monetary penalties against federal facilities. Orders under this section are an important tool for regulating federal facilities.

If the discharger fails to comply with the 13308 TSO, the discharger is subject to a complaint for Administrative Civil Liability. The State Water Board may issue a 13308 TSO if the violation or threatened violation involves requirements prescribed by a State Water Board Order.

7. Cease and Desist Orders (CDOs)

Cease and Desist Orders (CDOs) are adopted pursuant to California Water Code sections 13301 and 13303. CDOs may be issued to dischargers violating or threatening to violate WDRs or prohibitions prescribed by the Regional Water Board or the State Water Board.

Section 4477 of the California Government Code prohibits all state agencies from entering into contracts of \$5,000 or more for the purchase of supplies, equipment, or services from any nongovernmental entity who is the subject of a CDO that is no longer under review and that was issued for violation of WDRs or which has been finally determined to be in violation of federal laws relating to air or water pollution. If the CDO contains a time schedule for compliance and

the entity is adhering to the time schedule, the entity is not subject to disqualification under this section. A list of such entities is maintained by the State Water Board.

CDOs shall contain language describing likely enforcement options available in the event of noncompliance and shall specify that the Regional Water Board reserves its right to take any further enforcement action authorized by law. Such language shall include appropriate California Water Code citations. Violations of CDOs should trigger further enforcement in the form of an ACL, 13308 TSO, or referral to the Attorney General for injunctive relief or monetary remedies.

8. *Modification or Rescission of Waste Discharge Requirements (WDRs)*

In accordance with the provisions of the California Water Code, a Regional Water Board may modify or rescind WDRs in response to violations. Depending on the circumstances of the case, rescission of WDRs may be appropriate for failure to pay fees, penalties, or liabilities; a discharge that adversely affects beneficial uses of the waters of the State; and violation of the State Water Board General WDRs for discharge of bio-solids due to violation of the Background Cumulative Adjusted Loading Rate. Rescission of WDRs generally is not an appropriate enforcement response where the discharger is unable to prevent the discharge, as in the case of a POTW.

9. *Administrative Civil Liabilities (ACLs)*

Administrative Civil Liabilities (ACLs) are liabilities imposed by a Regional Water Board or the State Water Board. The California Water Code authorizes the imposition of an ACL for certain violations of law. The factors used to assess the appropriate penalties are addressed in Section VI.

In addition to those specific factors that must be considered in any ACL action, there is another factor that ought to be considered. When the underlying problem that caused the violation(s) has not been corrected, the Water Board should evaluate whether the liability proposed in the ACL complaint is sufficient to encourage necessary work by the discharger to address problems related to the violation. If not, the Water Board should consider other options. An ACL action may be combined with another enforcement mechanism such as a CAO, a CDO, or other order with a time schedule for obtaining compliance. The appropriate orders to bring a discharger into compliance via an enforcement action will vary with the circumstances faced by the Water Boards.

It is the policy of the State Water Board that a 30 day public comment period shall be posted on the Board's website prior to the settlement or imposition of any ACL, including mandatory minimum penalties, and prior to settlement of any judicial civil liabilities. In addition, for civil liabilities that are expected to generate significant public interest, the Board may consider mailing or e-mailing the notice to known interested parties, or publishing the notice in a local newspaper. The notice should include a brief description of the alleged violations, the proposed civil liability, the deadline for comments, the date of any scheduled hearing, a process for obtaining additional information, and a statement that the amount of the civil liability may be revised. Only one notice need be posted for each civil liability.

Upon receipt of an ACL Complaint, the discharger(s) may waive its right to a public hearing and pay the liability; negotiate a settlement; or appear at a Board hearing to dispute the Complaint. If the discharger waives its right to a public hearing and pays the liability, a third party may still comment on the Complaint at any time during the public comment period. Following review of the comments, the Executive Officer or his or her delegate may withdraw the ACL Complaint. An ACL Complaint may be redrafted and reissued as appropriate.

D. Petitions of Enforcement Actions

Persons affected by most formal enforcement actions or failures to act by Regional Water Boards may file petitions with the State Water Board for review of such actions or failures to act. The petition must be received by the State Water Board within 30 days of the Regional Water Board action. A petition on the Regional Water Board's failure to act must be filed within 30 days of either the date the Regional Water Board refuses to act or a date that is 60 days after a request to take action has been made to the Regional Water Board. Actions taken by the Executive Officer of the Regional Water Board, if pursuant to authority delegated by the Regional Water Board (e.g., CAOs, ACL orders), are considered final actions by the Regional Water Board and are also subject to the 30-day time limit. In addition, significant enforcement actions by a Regional Water Board Executive Officer may, in some circumstances, be reviewed by the Regional Water Board at the request of the discharger, though such review does not extend the time to petition the State Water Board. The State Water Board may, at any time and on its own motion, review most actions or failures to act by a Regional Water Board. When a petition is filed with the State Water Board challenging an ACL assessment, the assessment is not due or owing during the State Water Board review of the petition. In all other cases, the filing of a petition does not stay the obligation to comply with the Regional Water Board order.

APPENDIX B: ENFORCEMENT REPORTING

In order to inform the public of State and Regional Water Boards performance with regard to enforcement activities, there are a number of legislatively mandated and elective reports the Water Boards are committed to producing on a regular basis.

A. Legislatively Mandated Enforcement Reporting

The following list summarizes legislatively mandated enforcement reporting requirements and State Water Board interpretations thereof:

- Section 13225, subdivision (e) - requires each Regional Water Board to report rates of compliance for regulated facilities. In accordance with the "Implementation Plan Regarding Information Reporting Requirements for Regional Board Enforcement Outputs" (January, 2008) compliance rates will be reported in the Annual Enforcement Report.
- Section 13225, subdivision (k) - requires each Regional Water Board, in consultation with the State Water Board, to identify and post on the Internet a summary list of all enforcement actions undertaken in that regional and the disposition of each action, including any civil penalty assessed. This list must be updated at least quarterly.
- Section 13225, subdivision (k) and Section 13225, subdivision (e) – In accordance with the "Implementation Plan Regarding Information Reporting Requirements for Regional Board Enforcement Outputs" (January, 2008) each Regional Water Board must post the information required by these sections on its website as a single table and update it quarterly.
- Section 13323, subdivision (e) requires information related to hearing waivers and the imposition of administrative civil liability, as proposed and as finally imposed, to be posted on the Internet.
- Section 13385, subdivision (o) – requires the State Water Board to continuously report and update information on its website, but at a minimum, annually on or before January 1, regarding its enforcement activities. The required information includes all of the following:
 - A compilation of the number of violations of waste discharge requirements in the previous calendar year, including stormwater enforcement violations;
 - A record of the formal and informal compliance and enforcement actions taken for each violation, including stormwater enforcement actions; and
 - An analysis of the effectiveness of current enforcement policies, including mandatory minimum penalties.
- Government Code Section 65962.5, subdivision (c) – requires that the State Water Board annually compile and submit to Cal/EPA a list of:
 - All underground storage tanks for which an unauthorized release report is filed pursuant to Health and Safety Code Section 25295.
 - All solid waste disposal facilities from which there is a migration of hazardous waste and for which a Regional Water Board has notified the Department of

Toxic Substances Control pursuant to subdivision (e) of California Water Code section 13273.

- All CDOs issued after January 1, 1986, pursuant to California Water Code Section 13301, and all CAOs issued after January 1, 1986, pursuant to California Water Code section 13304, which concern the discharge of wastes that are hazardous materials.

B. Elective Enforcement Reporting

To present a more comprehensive view of the Water Boards' enforcement activities and to identify enforcement goals and priorities, the Water Boards will prepare an annual integrated water quality enforcement report that will, at a minimum, address the following subjects:

- Budgetary and staff resources available for water quality enforcement at the Water Boards, as compared with the total resources for the regulatory programs and activities that they support, and the types of enforcement actions taken with those enforcement resources during the reporting period.
- All enforcement information required by statute to be reported to the public every year.
- The effectiveness of the Water Boards' compliance and enforcement functions using metrics such as those identified in the Annual Enforcement Report (to the extent that the information is available in the Water Boards' data base system), below.

Recommended Performance Measures For Water Boards' Enforcement Programs

Measure Name	Measure Description
Self-Monitoring Report Evaluation	Number of self-monitoring reports due, received, and reviewed and percentage of reports reviewed
Inspection Monitoring	Number of inspections and the percentage of facilities inspected
Compliance Rates	Percentage of facilities in compliance, based upon the number of facilities evaluated
Enforcement Response	Percentage of facilities in violation that received an enforcement action requiring compliance
Enforcement Activities	Number and type of enforcement actions
Penalties Assessed and Collected	The amount of penalties assessed and collected, SEPs approved, and injunctive relief
MMP Violations Addressed	Number of facilities with MMP violations receiving a penalty at or above the minimum penalty assessed
Recidivism	Number and percentage of facilities returning to non-compliance for the same violation(s) addressed through an enforcement action
Environmental Benefits <i>(as a result of an enforcement action)</i>	Estimated pounds of pollutants reduced/removed through cleanup (soil or water), and wetlands/stream/beach/creek/river miles protected/restored (acres, miles, etc.)

From FY 2007-2008 Annual Enforcement Report

http://www.waterboards.ca.gov/water_issues/programs/enforcement/docs/annual_enf_rpt_032609.pdf

- Proposed enforcement priorities for the State Water Boards for the next reporting period and staff's basis for these proposals.
- The extent of progress on enforcement priorities identified in prior Annual Enforcement Reports.
- Recommendations for improvements to the Water Boards' enforcement capabilities, including additional performance metrics, and an evaluation of efforts to address prior staff recommendations for enforcement improvements.

Appendix C. Group 1 Pollutants

This list of pollutants is based on Appendix A to Section 123.45 of Title 40 of the Code of Federal Regulations.

Oxygen Demand

Biochemical Oxygen Demand (BOD)
Chemical Oxygen Demand (COD)
Total Oxygen Demands
Total Organic Carbon
Other*

Solids

Total Dissolved Solids (TDS)
Total Suspended Solids (TSS)
Other*

Nutrients

Inorganic Phosphorous Compounds
Inorganic Nitrogen Compounds
Other*

Detergents and Oils

Methylene Blue Active Substances
Nitrilotriacetic Acid
Oil and Grease
Other Detergents or Algicides*

Minerals

Calcium
Chloride
Fluoride
Magnesium
Sodium
Potassium
Sulfur
Sulfate
Total Alkalinity
Total Hardness
Other Minerals*

Metals

Aluminum
Cobalt
Iron
Vanadium

* The following list of pollutants is hereby included as Group 1 pollutants (pursuant to Appendix A to Section 123.45 of Title 40 of the Code of Federal Regulations) under the classifications of "other."

5-DAY SUM OF WLA VALUES
5-DAY SUM OF BOD5 DISCHARGED
7-DAY SUM OF WLA VALUES
7-DAY SUM OF BOD5 DISCHARGED
ACIDITY
ACIDITY, CO2 PHENOL (AS CaCO3)
ACIDITY-MINRL METHYL ORANGE (AS CaCO3)
ACIDITY, TOTAL (AS CaCO3)
ALGICIDES, GENERAL
ALKALINITY, BICARBO-NATE (AS CaCO3)
ALKALINITY, CARBO-NATE (AS CaCO3)
ALKALINITY, PHENOL-PHTHALINE METHOD
ALKALINITY, TOTAL (AS CaCO3)
ALUMINUM
ALUMINUM, ACID SOLUABLE
ALUMINUM CHLORIDE, DISSOLVED, WATER
ALUMINUM, DISSOLVED (AS AL)

ALUMINUM, IONIC
ALUMINUM, POTENTIALLY DISSOLVD
ALUMINUM SULFATE
ALUMINUM, TOTAL RECOVERABLE
ALUMINUM, TOTAL
ALUMINUM, TOTAL (AS AL)
AMMONIA & AMMONIUM-TOTAL
AMMONIA (AS N) + UNIONIZED AMMONIA
AMMONIA, UNIONIZED
AVG. OF 7-DAY SUM OF BOD5 VALUES
BARIUM, SLUDGE, TOT, DRY WEIGHT (AS BA)
BICARBONATE ION-(AS HCO3)
BIOCHEMICAL OXYGEN DEMAND-5
BIOCIDES
BOD % OVER INFLUENT
BOD (ULT. 1ST STAGE)

BOD (ULT. 2ND STAGE)
BOD (ULT. ALL STAGES)
BOD, 5-DAY (20 DEG. C)
BOD, 5-DAY 20 DEG C PER CFS OF
STREAMFLW
BOD, 5-DAY DISSOLVED
BOD, 5-DAY PERCENT REMOVAL
BOD, 5-DAY (20 DEG. C) PER PRODUCTION
BOD, 11-DAY (20 DEG. C)
BOD, 20-DAY (20 DEG. C)
BOD, 20-DAY, PERCENT REMOVAL
BOD 35-DAY (20 DEG. C)
BOD, CARB-5 DAY, 20 DEG C, PERCENT
REMLV
BOD, CARBONACEOUS 5 DAY, 5C
BOD, CARBONACEOUS (5-DAY, 20 DEG C)
BOD, CARBONACEOUS 05 DAY, 20C
BOD, CARBONACEOUS 20 DAY, 20C
BOD CARBONACEOUS, 25-DAY (20 DEG. C)
BOD, CARBONACEOUS, 28-DAY (20 DEG. C)
BOD, CARBONACEOUS, PERCENT
REMOVAL
BOD, FILTERED, 5 DAY, 20 DEG C
BOD, MASS, TIMES FLOW PROP.
MULTIPLIER
BOD, NITROG INHIB 5-DAY (20 DEG. C)
BOD, PERCENT REMOVAL (TOTAL)
BOD-5 LB/CU FT PROCESS
BORIC ACID
BORON, DISSOLVED (AS B)
BORON, SLUDGE, TOTAL DRY WEIGHT (AS
B)
BORON, TOTAL
BORON, TOTAL (AS B)
BORON, TOTAL RECOVERABLE
BROMIDE (AS BR)
BROMINE REPORTED AS THE ELEMENT
CALCIUM IN BOTTOM DEPOSITS
CALCIUM, DISSOLVED (AS CA)
CALCIUM, PCT EXCHANGE
CALCIUM, PCT IN WATER, (PCT)
CALCIUM, TOTAL RECOVERABLE
CARBON DIOXIDE (AS CO2)
CARBON, TOTAL (AS C)
CARBON, TOTAL INORGANIC (AS C)
CARBON, TOT ORGANIC (TOC)
CARBON, TOT ORGANIC (TOC) PER 1000
GALS.
CARBONACEOUS BOD, 5 DAY, 20 DEG C
FILTRD
CARBONACEOUS OXYGEN DEMAND, %
REMOVAL
CARBONATE ION- (AS CO3)
CBOD5 / NH3-N
CHEM. OXYGEN DEMAND (COD) %
REMOVAL

CHEM. OXYGEN DEMAND PER
PRODUCTION
CHEMICAL OXYGEN DEMAND (COD)
CHEMICAL OXYGEN DEMAND, SOLUBLE
CHLORIDE
CHLORIDE (AS CL)
CHLORIDE, DISSOLVED (AS CL)
CHLORIDE, DISSOLVED IN WATER
CHLORIDE, PERCENT REMOVAL
CHLORIDE, PER CFS OF STREAMFLOW
CHLORIDE, SLUDGE, TOTAL DRY WEIGHT
CHLORIDES & SULFATES
CHLORINE DEMAND, 1 HR
CHLORITE
COBALT, DISSOLVED (AS CO)
COBALT, TOTAL (AS CO)
COPPER, SLUDGE, TOT, DRY WEIGHT (AS
CU)
DIGESTER SOLIDS CONTENT, PERCENT
DITHIOCARBAMATE, RPTD AS
DITHIOCARBONATE
DRILLED SOLIDS IN DRILLING FLUIDS
ENDRIN KETONE, IN WATER
FERROCHROME LIGNO-SULFONATED
FRWTR MUD
FERROCYANIDE
FERROUS SULFATE
FIRST STAGE OXYGEN DEMAND, %
REMOVAL
FLUORIDE-FREE
FLUORIDE, DISSOLVED (AS F)
FLUORIDE, TOTAL (AS F)
FLUOROBORATES
FREE ACID, TOTAL
HARDNESS, TOTAL (AS CACO3)
HYDROCHLORIC ACID
HYDROGEN PEROXIDE
HYDROGEN PEROXIDE (T) DILUTION RATIO
HYDROGEN SULFIDE
HYDROGEN SULFIDE UNIONIZED
IODIDE (AS I)
IRON
IRON AND MANGANESE-SOLUBLE
IRON AND MANGANESE-TOTAL
IRON, DISSOLVED (AS FE)
IRON, DISSOLVED FROM DRY DEPOSITION
IRON, FERROUS
IRON, POTENTIALLY DISSOLVED
IRON, SLUDGE, TOTAL, DRY WEIGHT (AS
FE)
IRON, SUSPENDED
IRON, TOTAL (AS FE)
IRON, TOTAL PER BATCH
IRON, TOTAL PERCENT REMOVAL
IRON, TOTAL PER PRODUCTION

LIGHTLY TREATED LIG-NOSULFONATED MUD
LITHIUM, DISSOLVED (AS LI)
LITHIUM, TOTAL (AS LI)
MACROINVERTEBRATE ASSESSMENT
MAGNESIUM, DISSOLVED (AS MG)
MAGNESIUM, IN BOTTOM DEPOSITS
MAGNESIUM, PCT EXCHANGE
MAGNESIUM, TOTAL RECOVERABLE
MANGANESE IN BOTTOM DEPOSITS (DRY WGT)
MANGANESE, POTENTIALLY DISSOLVED
MANGANESE, DISSOLVED (AS MN)
MANGANESE, SUSPENDED
MANGANESE, TOTAL
MANGANESE, TOTAL (AS MN)
MANGANESE, TOTAL RECOVERABLE
METHYLENE BLUE ACTIVE SUBSTANCES
MICROSCOPIC ANALYSIS
MOLYBDENUM, DRY WEIGHT
MONOBORO CHLORATE
NICKEL, DRY WEIGHT
NITRILOTRIACETIC ACID (NTA)
NITRITE NITROGEN, DISSOLVED (AS N)
NITRITE PLUS NITRATE DISSOLVED 1 DET.
NITRITE PLUS NITRATE IN BOTTOM DEPOSITS
NITRITE PLUS NITRATE TOTAL 1 DET. (AS N)
NITROGEN (AS NO3) SLUDGE SOLID
NITROGEN OXIDES (AS N)
NITROGEN SLUDGE SOLID
NITROGEN SLUDGE TOTAL
NITROGEN, AMMONIA DISSOLVED
NITROGEN, AMMONIA IN BOTTOM DEPOSITS
NITROGEN, AMMONIA, PERCENT REMOVAL
NITROGEN, AMMONIA PER CFS OF STREAMFLW
NITROGEN, AMMONIA TOTAL (AS N)
NITROGEN, AMMONIA TOTAL (AS NH4)
NITROGEN, AMMONIA, SLUDGE, TOT DRY WGT
NITROGEN, AMMONIA, TOT UNIONIZED (AS N)
NITROGEN, DISSOLVED
NITROGEN, KJELDAHL DISSOLVED (AS N)
NITROGEN, KJELDAHL TOTAL
NITROGEN, KJELDAHL TOTAL (AS N)
NITROGEN, NITRATE DISSOLVED
NITROGEN, NITRATE TOTAL
NITROGEN, NITRATE TOTAL (AS N)
NITROGEN, NITRATE TOTAL (AS NO3)
NITROGEN, NITRITE TOTAL (AS N)
NITROGEN, NITRITE TOTAL (AS NO2)
NITROGEN, ORGANIC TOTAL (AS N)
NITROGEN, SLUDGE, TOT, DRY WT. (AS N)

NITROGEN, TOTAL AS NO3 + NH3
NITROGEN, TOTAL KJELDAHL, % REMOVAL
NITROGEN, INORGANIC TOTAL
NITROGEN, OXIDIZED
NITROGEN-NITRATE IN WATER, (PCT)
NITROGEN-NITRITE IN WATER, (PCT)
NITROGENOUS OXYGEN DEMAND, % REMOVAL
NITROGENOUS OXYGEN DEMAND (20-DAY, 20C)
NON-IONIC DISPERSANT (NALSPERSE 7348)
NON-NITROGENOUS BOD
OIL & GREASE
OIL & GREASE AROMATIC
OIL & GREASE, HEXANE EXTR METHOD
OIL & GREASE (FREON EXTR.-IR METH)
TOT, RC
OIL & GREASE, NON POLAR MATERIAL
OIL & GREASE % REMOVAL
OIL & GREASE PER CFS OF STREAMFLW
OIL & GREASE, PER 1000 GALLONS
OIL & GREASE PER PRODUCTION
OIL & GREASE (POLAR)
OIL & GREASE (SOXHLET EXTR.) TOT.
OIL & GREASE VISUAL
OXYGEN DEMAND, CHEM. (COD), DISSOLVED
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)
OXYGEN DEMAND, CHEM. (LOW LEVEL) (COD)
OXYGEN DEMAND, DISSOLVED
OXYGEN DEMAND FIRST STAGE
OXYGEN DEMAND, NITROGENOUS, ULTIMAT
OXYGEN DEMAND, SUM PRODUCT
OXYGEN DEMAND, TOTAL
OXYGEN DEMAND, TOTAL (TOD)
OXYGEN DEMAND, ULT. CARBONACEOUS (UCOD)
OXYGEN DEMAND, ULT., PERCENT REMOVAL
OXYGEN DEMAND, ULTIMATE
OZONE
OZONE-RESIDUAL
PENTACHLOROPHENOL, REMOVAL EFFICIENCY
PHOSPHATE TOTAL SOLUBLE
PHOSPHATE, DISSOLVED COLOR METHOD (AS P)
PHOSPHATE,
DISSOLVED/ORTHOPHOSPHATE(AS P)
PHOSPHATE, ORTHO (AS P)
PHOSPHATE, ORTHO (AS PO4)
PHOSPHATE, POLY (AS PO4)
PHOSPHATE, TOTAL (AS PO4)

PHOSPHATE, TOTAL COLOR. METHOD (AS P)
PHOSPHORUS, DISSOLVED
PHOSPHORUS, DISSOLVED REACTIVE (DRP AS P)
PHOSPHOROUS, IN TOTAL
ORTHOPHOSPHATE
PHOSPHORUS (REACTIVE AS P)
PHOSPHOROUS 32, TOTAL
PHOSPHOROUS, TOTAL ELEMENTAL
PHOSPHOROUS, TOTAL, IN BOTTOM DEPOSITS
PHOSPHOROUS, TOTAL ORGANIC (AS P)
PHOSPHORUS, TOTAL (AS P)
PHOSPHORUS, TOTAL PERCENT REMOVAL
PHOSPHORUS, TOTAL SOLUBLE (AS PO4)
POTASSIUM, DISSOLVED (AS K)
POTASSIUM, IN BOTTOM DEPOSITS
POTASSIUM, PCT EXCHANGE
POTASSIUM, TOTAL PCT IN WATER, (PCT)
POTASSIUM, TOTAL RECOVERABLE
PROPARGITE
RADIATION, GROSS BETA PARTICLE ACTIVITY
RATIO FECAL COLIFORM & STREPTOCOCCI RESIDUE, SETTLEABLE
RESIDUE, TOTAL FILTERABLE
RESIDUE, TOTAL NON-SETTLEABLE
RESIDUE, TOTAL VOLATILE
RESIDUE, VOLATILE NONFILTERABLE
SEAWATER GEL MUD
SETTLEABLE SOLIDS PERCENT REMOVAL
SILICA, DISSOLVED (AS SIO2)
SILICON, TOTAL
SILICA, TOTAL (AS SIO2)
SLUDGE BUILD-UP IN WATER
SLUDGE, RATE OF WASTING
SLUDGE SETTLEABILITY 30 MINUTE
SLUDGE VOLUME DAILY INTO A WELL
SODIUM ADSORPTION RATIO
SODIUM ARSENITE
SODIUM CHLORIDE (SALT)
SODIUM, DISSOLVED (AS NA)
SODIUM HEXAMETA-PHOSPHATE
SODIUM IN BOTTOM DEP (AS NA) (DRY WGT)
SODIUM NITRITE
SODIUM, %
SODIUM, % EXCHANGE- ABLE SOIL, TOTAL
SODIUM, SLUDGE, TOT, DRY WEIGHT (AS NA)
SODIUM SULFATE, TOTAL
SODIUM, TOTAL (AS NA)
SODIUM, TOTAL RECOVERABLE
SOLIDS ACCUMULATION RATE TOT DRY WEIGHT

SOLIDS, FIXED DISSOLVED
SOLIDS, FIXED SUSPENDED
SOLIDS, SETTLEABLE
SOLIDS, SETTLEABLE, NET VALUE
SOLIDS, SLUDGE, TOT, DRY WEIGHT
SOLIDS, SUSPENDED PERCENT REMOVAL
SOLIDS, TOTAL
SOLIDS, TOTAL DISSOLVED
SOLIDS, TOTAL DISSOLVED (TDS)
SOLIDS, TOTAL DISSOLVED-180 DEG.C
SOLIDS, TOTAL DISSOLVED PERCENT BY WEIGHT
SOLIDS, TOTAL DISSOLVED (INORGANIC)
SOLIDS, TOTAL FIXED
SOLIDS, TOTAL SUSPD. NON-VOLATILE
SOLIDS, TOTAL SUSPENDED
SOLIDS, TOTAL VOLATILE
SOLIDS, TOTAL DISSOLVED, TOTAL TONS
SOLIDS, TOTAL NON-VOLATILE, NON-FIXED
SOLIDS, TOTAL SUSP PER PRODUCTION
SOLIDS, TOTAL SUSP. PER 1000 GALLONS
SOLIDS, TOTAL SUSP. PER BATCH
SOLIDS, TOTAL SUSP. PER CFS OF STREAMFLW
SOLIDS, TOTAL SUSPENDED, LOADING RATE
SOLIDS, TOTAL SUSPENDED, NET VALUE
SOLIDS, VOLATILE DISSOLVED
SOLIDS, VOLATILE SUSPENDED
SOLIDS, VOLATILE SUSPENDED, % REMOVAL
SOLIDS, VOLATILE SUSP., IN MIXED LIQUOR
SOLIDS, DRY, DISCHARGE TO SOL. HANDLING SYS.
SOLIDS, DRY, INCIN. AS% OF DRY SOL. FROM TRMTPLT
SOLIDS, DRY, REMOVED FROM SOL. HANDLING SYS.
SOLIDS, TOT. VOLATILE PERCENT REMOVAL
SOLIDS, VOLATILE % OF TOTAL SOLIDS
SOLIDS-FLOTNG-VISUAL DETRMNTN-# DAYS OBS
SULFATE
SULFATE (AS S)
SULFATE, DISSOLVED (AS SO4)
SULFATE IN SEDIMENT
SULFATE, TOTAL (AS SO4)
SULFIDE, DISSOLVED, (AS S)
SULFIDE, TOTAL
SULFIDE, TOTAL (AS S)
SULFITE (AS S)
SULFITE (AS SO3)
SULFITE WASTE LIQUOR PEARL BENSON INDEX
SULFUR DIOXIDE TOTAL

SULFUR, TOTAL
SULPHUR, TOTAL ELEMENTAL
SUM BOD AND AMMONIA, WATER
SURFACTANTS, AS CTAS
SURFACTANTS (LINEAR ALKYLATE
SULFONATE)
SURFACTANTS (MBAS)
SUSPENDED SOLIDS
SUSPENDED SOLIDS, TOTAL ANNUAL
SUSPENDED SOLIDS, TOTAL DISCHARGE
TOTAL CHLORIDE RESIDUAL, BROMINE
TOTAL SUSP. SOLIDS-LB/CU FT PROCESS

TRIARYL PHOSPHATE
TURBIDITY, HCH TURBIDIMETER
ULTRAVIOLET LIGHT TRANSMITTANCE
VANADIUM, DISSOLVED (AS V)
VANADIUM, SUSPENDED (AS V)
VANADIUM, TOTAL
VANADIUM, TOTAL (AS V)
VANADIUM, TOTAL DRY WEIGHT (AS V)
VANADIUM, TOTAL RECOVERABLE
VEGETATIVE COVER
WLA BOD-5 DAY VALUE

Appendix D. Group 2 Pollutants

Group 2 Pollutants. This list of pollutants is based on Appendix A to Section 123.45 of Title 40 of the Code of Federal Regulations.

Metals

All metals not specifically listed under Group 1.

Inorganics

Cyanide

Total Residual Chlorine

Organics

All organics not specifically listed under Group 1.

Other*

* The following list of pollutants are hereby included as Group 2 pollutants (pursuant to Appendix A to Section 123.45 of Title 40 of the Code of Federal Regulations) under the classifications of "other."

1, 2, 4-TRIMETHYL-BENZENE	1,2,3 TRICHLORO-ETHANE
1, 3, 5-TRIMETHYL-BENZENE	1,2,3,4,6,7,8,9-
1,1 DICHLORO 1,2,2,2	OCTACHLORODIBENZOFURAN
TETRAFLUOROETHANE	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-
1,1 DICHLORO 2,2,2-TRIFLUOROETHANE	DIOX
1,1,1 TRICHLORO-2,2,2-TRIFLUOROETHANE	1,2,3,4,6,7,8-HEPTA
1,1,1,2,2-PENTA-FLUOROETHANE	CHLORODIBENZOFURAN
1,1,1,3,3-PENTA-FLUOROBUTANE	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-
1,1,1-TRICHLORO-ETHANE	DIOXN
1,1,1-TRICHLOROETHANE, DRY WEIGHT	1,2,3,4,7,8,9-HEPTA
1,1,1-TRIFLUORO- ETHANE	CHLORODIBENZOFURAN
1,1,2,2-TETRACHLORO-ETHANE	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
1,1,2,2-TETRACHLOROETHANE, DRY	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN
WEIGHT	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
1,1,2,2-TETRACHLOROETHYLENE	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN
1,1,2-TRICHLORO-ETHANE	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN
1,1,2-TRICHLOROETHANE, DRY WEIGHT	1,2,3,7,8-PENTACHLORODIBENZOFURAN
1,1-DICHLORO-1-FLUOROETHANE	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN
1,1-DICHLOROETHANE	1,2,3-TRICHLOROPROPANE
1,1-DICHLOROETHANE, DRY WEIGHT	1,2,4,5-TETRACHLORO-BENZENE
1,1-DICHLOROETHENE	1,2,4,5-TETRAMETHYL-BENZENE
1,1-DICHLOROETHYLENE	1,2,4-TRICHLORO-BENZENE
1,1-DICHLOROETHYLENE, DRY WEIGHT	1,2,4-TRICHLOROBENZENE, DRY WEIGHT
1,1-DIMETHYL-HYDRAZINE	1,2-BIS(2-CHLOROETH-ONY) ETHANE
1,2,3 TRICHLORO-BENZENE	1,2-CIS-DICHLORO-ETHYLENE

1,2-DICHLORO-1,1,2-T
 1,2-DICHLOROBENZENE
 1,2-DICHLOROBENZENE, DRY WEIGHT
 1,2-DICHLOROETHANE
 1,2-DICHLOROETHANE, DRY WEIGHT
 1,2-DICHLOROETHANE, TOTAL WEIGHT
 1,2-DICHLOROPROPANE
 1,2-DICHLOROPROPANE, DRY WEIGHT
 1,2-DICHLOROPROPENE
 1,2-DIPHENYL-HYDRAZINE
 1,2-DIPHENYL-HYDRAZINE, DRY WEIGHT
 1,2-PROPANEDIOL
 1,2-TRANS-DICHLORO- ETHYLENE
 1,2-TRANS-DICHLOROETHYLENE, DRY WEIGHT
 1,3 DICHLOROPROPANE
 1,3 DICHLOROPROPYLENE
 1,3-DIAMINOUREA
 1,3-DICHLOROBENZENE
 1,3-DICHLOROBENZENE, DRY WEIGHT
 1,3-DICHLOROPROPENE, TOTAL WEIGHT
 1,4 DICHLOROBUTANE
 1,4 _____DIOXANE
 1,4-DDT (O,P-DDT)
 1,4-DICHLOROBENZENE
 1,4-DICHLOROBENZENE, DRY WEIGHT
 1,4-XYLENE
 1-BROMO-2-CHLOROETHANE
 1-CHLORO-1,1-DIFLUOROETHANE
 1-ETHOXY-2-METHYLPROPANE
 1-HYDROXY-ETHYLIDENE
 1-METHYLNAPHTHALENE
 1-NITROSOPIPERIDINE
 2,2-DIBROMO-3-NITRILOPROPIONAMIDE
 2,2-DICHLOROPROPANE
 2,2-DICHLOROVINYL DIMETHYLPHOSPHATE
 2,2-DIMETHYL-2,3-DI-HYDRO-7-BENZOFURANOL
 2,3 DICHLOROPROPYLENE
 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
 2,3,4,6-TETRACHLORO-PHENOL
 2,3,4,7,8-PENTACHLORODIBENZOFURAN
 2,3,7,8 CHLORO-DIBENZOFURAN
 2,3,7,8 TETRACHLORO-DIBENZO FURAN (TCDF)
 2,3,7,8 TETRACHLORODIBENZO-P-DIOXIN
 2,3,7,8 TETRACHLORODIBENZO-P-DIOXIN SED,
 2,4,5 - T
 2,4,5, TP(SILVEX)
 2,4,5-TP(SILVEX) ACIDS/SALTS WHOLE WATER SAMPLE
 2,4,5 - TRICHLORO- PHENOL
 2,4,5-TRICHLOROPHENOXYPROPIONIC ACID
 2,4,6 TRICHLOROPHENOL, DRY WEIGHT
 2,4,6-TRICHLORO-PHENOL
 2,4-D SALTS AND ESTERS
 2,4-DB
 2,4-DICHLOROPHENOL
 2,4-DICHLOROPHENOXYACETIC ACID
 2,4-DIMETHYLPHENOL
 2,4-DINITROPHENOL
 2,4-DINITROTOLUENE
 2,4-DINITROTOLUENE, DRY WEIGHT
 2,4-TOLUENEDIAMINE
 2,5-TOLUENEDIAMINE
 2,6-DINITROTOLUENE
 2,6-DINITROTOLUENE, DRY WEIGHT
 2-ACETYL AMINO- FLOURCENE
 2-BUTANONE
 2-BUTANONE PEROXIDE
 2-CHLOROANILINE
 2-CHLOROETHANOL
 2-CHLOROETHYL VINYL ETHER, DRY WEIGHT
 2-CHLOROETHYL VINYL ETHER (MIXED)
 2-CHLORONAPHTHALENE
 2-CHLOROPHENOL
 2-ETHYL-1-HEXANOL
 2-ETHYL-2-METHYL-DIOXOLANE
 2-HEXANONE
 2-METHYL-2-PROPANOL
 2-METHYL-4,6-DINITROPHENOL
 2-METHYL-4-CHLOROPHENOL
 2-METHYLNAPHTHALENE
 2-METHYLPENTANE
 2-METHYLPHENOL
 2-METHYLPYRIDINE
 2-NAPHTHYLAMINE
 2-NITROANILINE
 2-NITROPHENOL
 2-PROPANONE
 2-SECONDARY BUTYL-4,6-DINITROPHENOL
 3,3-DICHLORO- BENZIDINE
 3,3-DICHLOROBENZIDINE, DRY WEIGHT
 3,4 BENZOFLUORAN-THENE
 3,4,5 TRICHLORO- GUACACOL
 3,4,6-TRICHLORO-CATECHOL
 3,4,6-TRICHLORO-GUAIACOL
 3-CHLOROPHENOL
 3-METHYLHEXANE
 3-METHYLPENTANE
 3-METHYLPYRIDINE
 3-NITROANILINE, TOTAL IN WATER
 4,4-BUTYLDENE BIS-(6-T-BUTYL-M-CRESOL)
 4,4-DDD (P,P-DDD)
 4,4-DDE (P,P-DDE)
 4,4-DDT (P,P-DDT)
 4,6-DINITRO-O-CRESOL
 4-BROMOPHENYL PHENYL ETHER
 4-CHLORO-3, 5-DIMETHYLPHENOL

4-CHLORO-3-METHYL PHENOL
4-CHLOROPHENYL PHENYL ETHER
4-METHYLPHENOL
4-NITRO-M-CRESOL
4-NITRO-N-METHYLPHTHALIMIDE, TOTAL
4-NITROPHENOL
9,10 DICHLOROSTEARIC ACID
9,10 EPOXYSTEARIC ACID
A-BHC-ALPHA
ABIETIC ACID
ACENAPHTHENE
ACENAPHTHENE, SED (DRY WEIGHT)
ACENAPHTHYLENE
ACEPHATE (ORTHENE, ORTRAN)
ACETALDEHYDE
ACETAMINOPHEN
ACETIC ACID
ACETONE
ACETONE, DRY WEIGHT
ACETONE IN WASTE
ACETOPHENONE
ACID COMPOUNDS
ACIDS, TOTAL VOLATILE (AS ACETIC ACID)
ACROLEIN
ACROLEIN, DRY WEIGHT
ACRYLAMIDE MONOMER
ACRYLIC ACID
ACRYLONITRILE
ACRYLONITRILE, DRY WEIGHT
ACTINIUM 228
A-ENDOSULFAN-ALPHA
ALACHLOR (BRAND NAME-LASSO)
ALACHLOR, DISSOLVED
ALDICARB
ALDICARB SULFONE
ALDICARB SULFOXIDE
ALDRIN
ALDRIN + DIELDRIN
ALDRIN, DRY WEIGHT
ALKYL BENZENE SULFONATED (ABS)
ALKYLDIMETHYL ETHYL AMMONIUM
BROMIDE
ALKYLDIMETHYLBENZYL AMMONIUM
CHLORIDE
ALPHA ACTIVITY
ALPHA EMITTING RADI-UM ISOTOPES,
DISSOL.
ALPHA GROSS RADIOACTIVITY
ALPHA, DISSOLVED
ALPHA, SUSPENDED
ALPHA, TOTAL
ALPHA, TOTAL, COUNTING ERROR
ALPHABHC DISSOLVED
ALPHA-ENDOSULFAN
AMETRYN ORGANIC PESTICIDE
AMIBEN (CHLORAMBEN)

AMINES, ORGANIC TOTAL
AMINOTROL - METHYLENE PHOSPHATE
AMYL ALCOHOL
ANILINE
ANTHRACENE
ANTIMONY IN BOTTOM DEPOSITS (DRY
WGT)
ANTIMONY, DISSOLVED (AS SB)
ANTIMONY, TOTAL (AS SB)
ANTIMONY, TOTAL RECOVERABLE
AROMATICS, SUBSTITUTED
AROMATICS, TOTAL PURGEABLE
ARSENIC, POTENTIALLY DISSOLVED
ARSENIC, DISSOLVED (AS AS)
ARSENIC, DRY WEIGHT
ARSENIC, TOTAL (AS AS)
ARSENIC, TOTAL RECOVERABLE
ASANA
ASBESTOS
ASBESTOS (FIBROUS)
A-TERPINEOL
ATRAZINE
ATRAZINE, DISSOLVED
AZIDE
AZOBENZENE
BALAN (BENEFIN)
BARIUM IN BOTTOM DEPOSITS (DRY WGT)
BARIUM, POTENTIALLY DISSOLVED
BARIUM, DISSOLVED (AS BA)
BARIUM, TOTAL (AS BA)
BARIUM, TOTAL RECOVERABLE
BASE NEUTRALS & ACID (METHOD 625),
TOTAL
BASE NEUTRALS & ACID (METHOD 625),
EFFLNT
BASE/NEUTRAL COMPOUNDS
BAYER 73 LAMPREYCIDE IN WATER
B-BHC-BETA
B-BHC-BETA DISSOLVED
B-ENDOSULFAN-BETA
BENFLURALIN, (ORG. PESTICIDE ACT. INGD)
BENOMYL & CARBEND. ORGANIC
PESTICIDE
BENTAZON, TOTAL
BENZENE
BENZENE (VOLATILE ANALYSIS)
BENZENE HEXACHLORIDE
BENZENE SULPHONIC ACID
BENZENE, DISSOLVED
BENZENE, DRY WEIGHT
BENZENE, HALOGENATED
BENZENE, TOLUENE, XYLENE IN
COMBINATION
BENZENE, ETHYL BENZENE TOLUENE,
XYLENE COMBINATION
BENZENE HEXACHLORIDE

BENZIDINE
 BENZIDINE, DRY WEIGHT
 BENZISOTHIAZOLE
 BENZO(A) FLUORANTHENE
 BENZO(A) ANTHRACENE
 BENZO(A) PYRENE
 BENZO(A) PYRENE, DRY WEIGHT
 BENZO(B) FLUORANTHENE (3,4-BENZO)
 BENZO(GHI) PERYLENE
 BENZO(K) FLUORANTHENE
 BENZOFURAN
 BENZY CHLORIDE
 BENZYL ALCOHOL
 BENZYL CHLORIDE
 BERYLLIUM IN BOTTOM DEPOSITS (DRY WGT)
 BERYLLIUM, DISSOLVED (AS BE)
 BERYLLIUM, POTENTIALLY DISSOLVED
 BERYLLIUM, TOTAL (AS BE)
 BERYLLIUM, TOTAL RECOVERABLE (AS BE)
 BETA, DISSOLVED
 BETA, SUSPENDED
 BETA, TOTAL
 BETA, TOTAL, COUNTING ERROR
 BETASAN(N-2-MERCAPTO ETHYL BENZENE SULFAMID
 BEZONITRILE (CYANOBENZENE)
 BHC, TOTAL
 BHC-ALPHA
 BHC-BETA
 BHC-DELTA
 BHC-GAMMA
 BIFENTHRIN
 BIS -- PHENOL-A (ALPHA)
 BIS (2-CHLORO- ISOPROPYL) ETHER
 BIS (2-CHLOROETHOXY) METHANE
 BIS (2-CHLOROETHOXY) METHANE, DRY WT.
 BIS (2-CHLOROETHYL) ETHER
 BIS (2-ETHYLHEXYL) PHTHALATE
 BIS (2-ETHYLHEXYL) PHTHALATE, DRY WGT
 BIS (CHLOROMETHYL) ETHER
 BIS (TRICHLOROMETHYL) SULFONE
 BIS ETHER
 BISMUTH 214
 BISMUTH, TOTAL (AS BI)
 BISPHENOL-A
 BROMACIL
 BROMACIL (HYVAR)
 BROMACIL, LITHIUM
 BROMOCHLOROMETHANE
 BROMODICHLOROETHANE
 BROMOFORM
 BROMOFORM, DRY WGT
 BROMOMETHANE
 BROMOXYNIL ORGANIC PESTICIDE
 BROMOXYNIL OCTANOATE
 BUSAN 40 ORGANIC PESTICIDE
 BUSAN 85 ORGANIC PESTICIDE
 BUTACHLOR
 BUTANE
 BUTANOIC ACID
 BUTANOL
 BUTANONE
 BUTHDIENE TOTAL
 BUTOXY ETHOXY ETHANOL TOTAL
 BUTYL ACETATE
 BUTYL BENZYL PHTHALATE
 BUTYLATE (SUTAN)
 CADMIUM
 CADMIUM TOTAL RECOVERABLE
 CADMIUM IN BOTTOM DEPOSITS (DRY WGT)
 CADMIUM SLUDGE SOLID
 CADMIUM SLUDGE TOTAL
 CADMIUM, POTENTIALLY DISSOLVD
 CADMIUM, DISSOLVED (AS CD)
 CADMIUM, PERCENT REMOVAL
 CADMIUM, SLUDGE, TOTAL DRY WGT (AS CD)
 CADMIUM, TOTAL (AS CD)
 CAFFEINE
 CAPTAFOL
 CAPTAN
 CARBAMATES
 CARBARYL TOTAL
 CARBN CHLOROFRM EXT-RACETS, ETHER INSOLUBL
 CARBOFURAN
 CARBON DISULFIDE (CS2)
 CARBON TETRACHLORIDE
 CARBON TETRACHLORIDE, DRY WEIGHT
 CARBON, CHLOROFORM EXTRACTABLES
 CARBON, DISSOLVED ORGANIC (AS C)
 CARBONATE ION (AS CaCO3)
 CARBOSULFAN, TOTAL
 CERIUM, TOTAL
 CESIUM 137
 CESIUM, TOTAL (AS CS)
 CHIRAL
 CHLOR, PHENOXY ACID GP, NONE FOUND
 CHLORAL
 CHLORAL HYDRATE
 CHLORAMINE RESIDUAL
 CHLORDANE (CA OCEAN PLAN DEFINITION)
 CHLORDANE (TECH MIX & METABS), DRY WGT
 CHLORDANE (TECH MIX. AND METABOLITES)
 CHLORDANE, ALPHA, WHOLE WATER
 CHLORDANE, GAMMA, WHOLE WATER
 CHLORENDIC ACID

CHLORETHOXYFOS
CHLORIDE, ORGANIC, TOTAL
CHLORINATED DIBENZO-FURANS,
EFFLUENT
CHLORINATED DIBENZO-FURANS, SLUDGE
CHLORINATED DIBENZO-P-DIOXINS,
EFFLUENT
CHLORINATED DIBENZO-P-DIOXINS,
SLUDGE
CHLORINATED ETHANES
CHLORINATED HYDRO-CARBONS,
GENERAL
CHLORINATED METHANES
CHLORINATED ORGANIC COMPOUNDS
CHLORINATED PESTI-CIDES, TOTAL
CHLORINATED PESTI-CIDES, TOTAL & PCBS
CHLORINATED PHENOLS
CHLORINATION
CHLORINE DIOXIDE
CHLORINE DOSE
CHLORINE RATE
CHLORINE USAGE
CHLORINE, COMBINED AVAILABLE
CHLORINE, FREE AVAILABLE
CHLORINE, FREE RESIDUAL, TOTAL
EFFLUENT
CHLORINE, TOTAL RESIDUAL
CHLORINE, TOTAL RESIDUAL (DSG. TIME)
CHLORINE, TOTAL RES. DURATION OF
VIOLATION
CHLOROBENZENE
CHLOROBENZENE, DRY WEIGHT
CHLOROBENZILATE
CHLOROBUTADIENE (CHLOROPRENE)
CHLORODIBROMOMETHANE
CHLORODIBROMOMETHANE, DRY WEIGHT
CHLORODIFLUORO-METHANE
CHLORODIMEFORM
CHLOROETHANE
CHLOROETHANE, TOTAL WEIGHT
CHLOROETHYLENE BISTHIOCYANATE
CHLOROFORM
CHLOROFORM EXTRACTABLES, TOTAL
CHLOROFORM, DISSOLVED
CHLOROFORM, DRY WEIGHT
CHLOROHEXANE, TOTAL
CHLOROMETHANE
CHLOROMETHYL BENZENE
CHLORONEB ORGANIC PESTICIDE
CHLORONITROBENZENE
CHLOROPHENOXY PROPANANOL
CHLOROSYRINGEALDEHYDE, EFFLUENT
CHLOROTHALONIL ORGANIC PESTICIDE
CHLOROTOLUENE
CHLOROXAZONE
CHLORPHENIRAMINE

CHLORPYRIFOS
CHROMIUM
CHROMIUM SLUDGE SOLID
CHROMIUM SLUDGE TOTAL
CHROMIUM TOTAL RECOVERABLE
CHROMIUM TRIVALENT IN BOTTOM
DEPOSITS
CHROMIUM, DISSOLVED (AS CR)
CHROMIUM, DRY WEIGHT
CHROMIUM, HEXAVALENT
CHROMIUM, HEXAVALENT (AS CR)
CHROMIUM, HEXAVALENT DISSOLVED (AS
CR)
CHROMIUM, HEXAVALENT IN BOT DEP (DRY
WGT)
CHROMIUM, HEXAVALENT POTENTIALLY
DISOLVED
CHROMIUM, HEXAVALENT TOT
RECOVERABLE
CHROMIUM, SUSPENDE (AS CR)
CHROMIUM, TOTAL
CHROMIUM, TOTAL (AS CR)
CHROMIUM, TOTAL DRY WEIGHT (AS CR)
CHROMIUM, TOTAL IN BOT DEP (WET WGT)
CHROMIUM, TOTAL PERCENT REMOVAL
CHROMIUM, TRIVALENT (AS CR)
CHROMIUM, TRIVALENT, POTENTIALLY
DISSOLVED
CHRYSENE
CIS-1,3-DICHLORO PROPENE
CITRIC ACID
CN, FREE (AMENABLE TO CHLORINE)
COBALT, TOTAL RECOVERABLE
COLUMBIUM, TOTAL
COMBINED METALS SUM
COPPER
COPPER AS SUSPENDE BLACK OXIDE
COPPER IN BOTTOM DEPOSITS (DRY WGT)
COPPER SLUDGE SOLID
COPPER SLUDGE TOTAL
COPPER TOTAL RECOVERABLE
COPPER, DISSOLVED (AS CU)
COPPER, PERCENT REMOVAL
COPPER, POTENTIALLY DISSOLVED
COPPER, SUSPENDE (AS CU)
COPPER, TOTAL (AS CU)
COPPER, TOTAL PER BATCH
COUMAPHOS
CRESOL
CYANATE (AS OCN)
CYANAZINE
CYANIDE (A)
CYANIDE AND THIOCYANATE - TOTAL
CYANIDE COMPLEXED TO RANGE OF
COMPOUND

CYANIDE FREE NOT AMENABLE TO
CHLORIN.
CYANIDE IN BOTTOM DEPOSITS (DRY WGT)
CYANIDE SLUDGE SOLID
CYANIDE, FILTERABLE, TOTAL
CYANIDE, FREE AVAILABLE
CYANIDE, FREE-WATER PLUS
WASTEWATERS
CYANIDE, DISSOLVED STD METHOD
CYANIDE, FREE (AMEN. TO CHLORINATION)
CYANIDE, TOTAL (AS CN)
CYANIDE, TOTAL RECOVERABLE
CYANIDE, WEAK ACID, DISSOCIABLE
CYCLOATE (RONEET)
CYCLOHEXANE
CYCLOHEXANONE
CYCLOHEXYL AMINE (AMINO HEXAHYDRO)
CYCOHEXANONE
CYFLUTHRIN
DACONIL (C8CL4N2)
DACTHAL
DAZOMET
DCPA, ORGANIC PESTICIDE
DDD IN WHOLE WATER SAMPLE
DDE
DDT
DDT/DDD/DDE, SUM OF P, P & O,P ISOMERS
DECACHLOROBIPHENYL (DCBP) TOTAL
DECHLORANE PLUS
DEF, ORGANIC PESTICIDE
DEHYDROABIETIC ACID
DELNAV
DELTA BENZENE HEXACHLORIDE
DELTAMETHRIN
DEMETON
DIAZINON
DIBENZO (A,H) ANTHRACENE
DIBENZO (A,H) ANTHRACENE, DRY WEIGHT
DIBENZOFURAN
DIBROMOCHLORO-METHANE
DIBROMODICHLOROMETHANE
DIBROMOMETHANE
DICHLONE
DICHLORAN, TOTAL
DICHLOROBENZENE
DICHLOROBENZENE, ISOMER
DICHLOROBENZYLTRIFLUORIDE
DICHLOROBROMOMETHANE
DICHLOROBROMOMETHANE, DRY WEIGHT
DICHLOROBUTADIENE
DICHLOROBUTENE-(ISOMERS)
DICHLORODEHYDRO-ABEIIETIC ACID
DICHLORODIBROMOMETHANE
DICHLORODIFLUORO-METHANE
DICHLOROETHENE, TOTAL
DICHLOROFLUORO METHANE

DICHLOROMETHANE
DICHLOROPROPYLENE, 1,2
DICHLOROTOLUENE
DICHLOROTRIFLUORO- ETHANE
DICHLORVOS, TOTAL
DICHLORVOS, TOTAL DISSOLVED
DICHLORVOS, TOTAL SED DRY WEIGHT
DICHLORVOS, TOTAL SUSPENDED
DICYCLOHEXYLAMINE, TOTAL
DICYCLOPENTADIENE
DIDECYLDIMETHYL AMMONIUM CHLORIDE
DIDROMOMETHANE, 1-2
DIELDRIN
DIELDRIN, DRY WEIGHT
DIETHL METHYL BENZENESULFONAMIDE
DIETHYL PHTHALATE
DIETHYL PHTHALATE, DRY WEIGHT
DIETHYLAMINE
DIETHYLAMINOETHANOL
DIETHYLBENZENE
DIETHYLENE GLYCOL DINITRATE, TOTAL
DIETHYLHEXYL PHTHALATE ISOMER
DIETHYLHEXYL- PHTHALATE
DIETHYLSTILBESTEROL
DIFOLATAN
DIISOPROPYL ETHER
DIMETHOXYBENZIDINE
DIMETHYL BENZIDINE
DIMETHYL DISULFIDE TOTAL
DIMETHYL NAPHTHALENE
DIMETHYL PHTHALATE
DIMETHYL PHTHALATE
DIMETHYL PHTHALATE, DRY WEIGHT
DIMETHYL SULFIDE TOTAL
DIMETHYLAMINE
DIMETHYLANILINE
DI-N-BUTYL PHTHALATE
DI-N-BUTYL PHTHALATE, DRY WEIGHT
DI-NITRO BUTYL PHENOL (DNBP)
DINITROTOLUENE
DI-N-OCTYL PHTHALATE
DI-N-OCTYL PHTHALATE, DRY WEIGHT
DINOSEB
DINOSEB (DNBP)
DIOXANE
DIOXATHION ORGANIC PESTICIDE
DIOXIN
DIOXIN (TCDD) SUSPENDED
DISSOLVED RADIOACTIVE GASSES
DISULFOTON
DIURON
DMDS
DOCOSANE
DODECYLGUANIDINE SALTS
DYPHYLLINE
EDTA

EDTA AMMONIATED
ENDOSULFAN SULFATE
ENDOSULFAN, ALPHA, IN WASTE
ENDOSULFAN, BETA, IN WASTE
ENDOSULFAN, TOTAL
ENDOTHALL SALTS & ESTERS, ORG. PEST.
ENDRIN
ENDRIN + ENDRIN ALDEHYDE (SUM)
ENDRIN ALDEHYDE
EPHEDRINE SULFATE
EPICHLOROHYDRIN
EPTC (EPTAM)
ESTRADIOL
ETHALFLURALIN WATER, TOTAL
ETHANE, 1,2-BIS (2- CLRETHXY), HOMLG
SUM
ETHION
ETHOXYQUIN
ETHYL ACETATE
ETHYL BENZENE
ETHYL ETHER BY GAS CHROMATOGRAPH
ETHYL METHANESULFONATE
ETHYL METHYL-DIOXOLANE
ETHYL PARATHION
ETHYLBENZENE
ETHYLBENZENE, DRY WEIGHT
ETHYLENE
ETHYLENE CHLOROHYDRIN
ETHYLENE DIBROMIDE (1,2
DIBROMOETHANE)
ETHYLENE GLYCOL
ETHYLENE GLYCOL DINITRATE
ETHYLENE OXIDE
ETHYLENE THIOUREA (ETU)
ETHYLENE, DISSOLVED (C2H4)
EXPLOSIVE LIMIT, LOWER
EXPLOSIVES, COMBINED TNT + RDX +
TETRYL
FENARIMOL ORGANIC PESTICIDE
FENVALERATE ORGANIC PESTICIDE
FERRICYANIDE
FLUORANTHENE
FLUORANTHENE, DRY WEIGHT
FLUORENE
FLUORENE, DRY WEIGHT
FLUORIDE-COMPLEX
FLUSILAZOLE
FOAMING AGENTS
FOLPET WATER TOTAL
FORMALDEHYDE
FORMIC ACID
FREON 113 (1,1,1-TRIFLOURO-2,2-
FREON, TOTAL
FUEL, DIESEL, #1
FURANS
FURFURAL

GALLIUM, TOTAL (AS GA)
GAMMA-BHC
GAMMA, TOTAL
GAMMA, TOTAL COUNTING ERROR
GASOLINE, REGULAR
GERMANIUM, TOTAL (AS GE)
GLYPHOSATE, TOTAL
GOLD, TOTAL (AS AU)
GROSS BETA
GUAFENSIN
GUANIDINE NITRATE
GUTHION
HALOGEN, TOTAL ORGANIC
HALOGEN, TOTAL RESIDUAL
HALOGENATED HYDRO-CARBONS, TOTAL
HALOGENATED ORGANICS
HALOGENATED TOLUENE
HALOGENS, ADSORBABLEORGANIC
HALOGENS, TOTAL ORGAN-ICS BOTTOM
SEDIMENT
HALOGENS, TOTAL COMBINED
HALOMETHANES, SUM
HEPTACHLOR
HEPTACHLOR + HEPTACHLOR EPOXIDE
HEPTACHLOR, DRY WEIGHT
HEPTANE
HERBICIDES, TOTAL
HEXACHLOROBENZENE
HEXACHLOROBENZENE, DRY WEIGHT
HEXACHLOROBIPHENYL
HEXACHLOROBUTADIENE
HEXACHLOROBUTADIENE, DRY WEIGHT
HEXACHLOROCYCLOHEXANE (BHC) TOTAL
HEXACHLOROCYCLO-PENTADIENE
HEXACHLOROCYCLOPENTADIENE, DRY
WEIGHT
HEXACHLOROETHANE
HEXACHLOROETHANE, DRY WEIGHT
HEXACHLOROPENTADIENE
HEXACHLOROPHENE
HEXADECANE
HEXAHYDROAZEPINONE
HEXAMETHYL-PHOSPHORAMINE (HMPA)
HEXAMETHYLBENZENE
HEXANE
HEXAZIMONE
HMX-1,3,5,7-TETRA ZOCINE (OCTOGEN)
HYDRAZINE
HYDRAZINES, TOTAL
HYDROCARBON, TOTAL RECOVERABLE
HYDROCARBONS NITRATED
HYDROCARBONS NITRATED, TOTAL
HYDROCARBONS, AROMATIC
HYDROCARBONS, TOTAL GAS
CHROMATOGRAPH

HYDROCARBONS, IN H2O,IR,CC14 EXT.
CHROMAT
HYDROGEN CYANIDE
HYDROQUINONE
HYDROXYACETOPHENONE
HYDROXYQUINOLINE TOTAL
HYDROXYZINE
INDENE
INDENO (1,2,3-CD) PYRENE
INDENO (1,2,3-CD) PYRENE, DRY WEIGHT
INDIUM
IODINE 129
IODINE RESIDUAL
IODINE TOTAL
ISOBUTYL ACETATE
ISOBUTYL ALCOHOL
ISOBUTYRALDEHYDE
ISODECYLDIPHENYL-PHOSPHATE
ISODRIN
ISO-OCTANE
ISOOCTYL 2,4,5-T
ISOOCTYL SILVEX
ISOPHORONE
ISOPHORONE, DRY WEIGHT
ISOPIMARIC ACID
ISOPRENE
ISOPROPALIN WATER, TOTAL
ISOPROPNOL
ISOPROPYL ACETATE
ISOPROPYL ALCOHOL (C3H8O), SED.
ISOPROPYLBENZENE
ISOPROPYL ETHER
ISOPROPYLBIPHENYL, TOTAL
ISOPROPYLIDINE DIOXYPHENOL
ISOTHIAZOLONE
ISOTHIOZOLINE, TOTAL
ISOXSUPRINE
KELTHANE
KEPONE
KN METHYL ORGANIC PESTICIDE
LANTHANUM, TOTAL
LEAD
LEAD TOTAL RECOVERABLE
LEAD 210
LEAD 210, TOTAL
LEAD 212
LEAD 214
LEAD SLUDGE SOLID
LEAD SLUDGE TOTAL
LEAD, DISSOLVED (AS PB)
LEAD, DRY WEIGHT
LEAD, POTENTIALLY DISSOLVD
LEAD, TOTAL (AS PB)
LEAD, TOTAL DRY WEIGHT (AS PB)
LINDANE
LINOLEIC ACID

LINOLENIC ACID
LINURON ORGANIC PESTICIDE
M-ALKYLDIMETHLBENZYLAMCL
MALATHION
MB 121
MCPA 2-ETHYLHEXYL ESTER
MERCAPTANS, TOTAL
MERCAPTOBENZOTHAZOLE
MERCURY
MERCURY TOTAL RECOVERABLE
MERCURY, DISSOLVED (AS HG)
MERCURY, DRY WEIGHT
MERCURY (HG), IN BARITE, DRY WEIGHT
MERCURY, POTENTIALLY DISSOLVD
MERCURY, TOT IN BOT DEPOSITS (DRY WGT)
MERCURY, TOTAL (AS HG)
MERCURY, TOTAL (LOW LEVEL)
METALS TOXICITY RATIO
METALS, TOTAL
METALS, TOX PRIORITY POLLUTANTS, TOTAL
METAM POTASSIUM
META-XYLENE
METHAMIDOPHOS ORGANIC PESTICIDE
METHAM SODIUM (VAPAM)
METHANE
METHANOL, TOTAL
METHOCARBAMOL
METHOMYL
METHOXYCHLOR
METHOXYPROPYLAMINE
METHYL ACETATE
METHYL BROMIDE
METHYL METHANESULFONATE
METHYL BROMIDE, DRY WEIGHT
METHYL CHLORIDE
METHYL CHLORIDE, DRY WEIGHT
METHYL CYANIDE (ACETONITRILE)
METHYL ETHYL BENZENE
METHYL ETHYL KETONE
METHYL ETHYL SULFIDE
METHYL FORMATE
METHYL ISOBUTYL KETONE (MIBK)
METHYL MERCAPTAN
METHYL METHACRYLATE
METHYL NAPHTHALENE
METHYL PARATHION
METHYL STYRENE
METHYLAMINE
METHYLCYCLOPENTANE
METHYLENE BIS-THIOCYANATE
METHYLENE CHLORIDE
METHYLENE CHLORIDE, DRY WEIGHT
METHYLENE CHLORIDE, SUSPENDED
METHYLHYDRAZINE

METRIBUZIN (SENCOR), WATER,
DISSOLVED
METRIOL TRINITRATE, TOTAL
MIREX
MOLYBDENUM DISSOLVED (AS MO)
MOLYBDENUM, TOTAL (AS MO)
MONOCHLOROACETIC ACID
MONO-CHLORO-BENZENES
MONOCHLOROBENZYLTRIFLUORIDE
MONOCHLORODEHYDRO- ABIETIC ACID
MONOCHLOROTOLUENE
MP062 (STEWART)
NABAM, ORGANIC PESTICIDE
NABONATE
N-AMYL ACETATE
NAPHTHALENE
NAPHTHALENE, DRY WEIGHT
NAPHTHENIC ACID
NAPROPAMIDE (DEVIRINOL)
N-BUTYL ACETATE
N-BUTYL-BENZENE SULFONAMIDE (IN WAT)
N-BUTYL-BENZENE (WHOLE WATER, UG/L
NEPTUNE BLUE
N-HEPTADECANE
NIACINAMIDE
NICKEL
NICKEL SLUDGE SOLID
NICKEL SLUDGE TOTAL
NICKEL TOTAL RECOVERABLE
NICKEL, DISSOLVED (AS NI)
NICKEL, POTENTIALLY DISSOLVED
NICKEL, SUSPENDED (AS NI)
NICKEL, TOTAL (AS NI)
NICKEL, TOT IN BOTTOM DEPOSITS (DRY
WGT)
NICKEL, TOTAL PER BATCH
NICOTINE SULFATE
NITROBENZENE
NITROBENZENE, DRY WEIGHT
NITROCELLULOSE
NITROFURANS
NITROGEN, ORGANIC, DISSOLVED (AS N)
NITROGLYCERIN BY GAS
CHROMATOGRAPHY
NITROGUANIDINE
NITROSODIPHENYLAMINE
NITROSTYRENE
N-METHYL-2-PYRROLIDONE
N-NITROSO COMPOUNDS, VOLATILE
N-NITROSODIBUTYL-AMINE
N-NITROSODIETHYL-AMINE
N-NITROSODIMETHYL-AMINE
N-NITROSODIMETHYL-AMINE, DRY WEIGHT
N,N-DIETHYL CARBANILIDE
N,N-DIMETHYL FORMAMIDE
N-NITROSODI-N-BUTYLAMINE

N-NITROSODI-N-PROPYLAMINE
N-NITROSODI-N-PROPYLAMINE, DRY
WEIGHT
N-NITROSODIPHENYL-AMINE
N-NITROSODIPHENYLAMINE, DRY WEIGHT
N-NITROSOPYRROLIDINE
NONHALOGENATED VOLATILE ORGANICS
NONPURGEABLE ORGANIC HALIDES
NORFLURAZON ORGANIC PESTICIDE
N PENTANE
N-PROPYLBENZENE
O-CHLOROBENZYL CHLORIDE
OCTACHLORO-CYCLOPENTENE
OCTACHLORODIBENZO P DIOXIN
OCTACHLORODIBENZOFURAN
OCTYLPHENOXY POLYETHOXYETHANOL
OIL/GREASE CALCULATED LIMIT
OIL, PETROLEUM ETHER EXTRACTABLES
OLEIC ACID
ORDRAM (HYDRAM)
ORGANIC ACTIVE IN-GREDIENTS
(40 CFR 455)
ORGANIC COMPOUNDS, CHLOROFORM
EXTRACT.
ORGANIC HALIDES, TOTAL
ORGANIC PESTICIDE CHEMICALS
(40 CFR 455)
ORGANICS, GASOLINE RANGE
ORGANICS, TOTAL
ORGANICS, TOTAL HALOGENS (TOX)
ORGANICS, TOTAL PURGE-ABLES (METHOD
624)
ORGANICS, TOTAL TOXIC (TTO)
ORGANICS-TOTAL VOLATILE (NJAC
REG.7:23-17E)
ORGANICS, VOLATILE (NJAC REG. 7:23-17E)
ORTHENE
ORTHOCHLOROTOLUENE
ORTHO-CRESOL
ORTHO-XYLENE
O-TOLUIDINE
OXALIC ACID
OXYTETRACYCLINE HYDROCHLORIDE
P,P-DDE-DISSOLVED
P,P-DDT-DISSOLVED
PALLADIUM, TOTAL (AS PD)
P-AMINOBIPHENYL
PANTHALIUM, TOTAL
PARABEN (METHYL AND PROPYL)
PARACHLOROMETA CRESOL
PARA-DICHLOROBENZENE
PARAQUAT
PARATHION
PCB-1016 (AROCHLOR 1016)
PCB-1221 (AROCHLOR 1221)
PCB-1232 (AROCHLOR 1232)

PCB-1242	(AROCHLOR 1242)	POLYBROMINATED BIPHENYLS
PCB-1248	(AROCHLOR 1248)	POLYBROMINATED DIPHENYL OXIDES
PCB-1254	(AROCHLOR 1254)	POLYCHLORINATED BIPHENYLS (PCBS)
PCB-1260	(AROCHLOR 1260)	POLYMETHYLACRYLIC ACID
PCB-1262		POLY-NUCLEAR AROMATICS (POLYRAM)
PCB, TOTAL SLUDGE, SCAN CODE		POTASSIUM 40
PCBS IN BOTTOM DEPS. (DRY SOLIDS)		PRIORITY POLLUTANTS TOTAL EFFLUENT
PCNB, ORGANIC PEST.		PROFENOFOS
P-CRESOL		PROMETON, ORGANIC PESTICIDE
P-DIMETHYLAMINO-AZOBENZENE		PROMETRYN, ORGANIC PESTICIDE
PEBULATE (TILLAM)		PRONAMIDE, ORGANIC PESTICIDE
PENDIMETHALIN ORGANIC PESTICIDE		PROPABHLOR (RAMROD) DISSOLVED
PENTACHLOROBENZENE		PROPACHLOR, ORGANIC PESTICIDE
PENTACHLOROETHANE		PROPANE, 2-METHOXY-2-METHYL
PENTACHLOROPHENOL		PROPANIL
PENTANE, TOTAL EFFLUENT		PROPAZINE, ORGANIC PESTICIDE
PERFLUOROBUTANE SULFONAMIDE		PROPRANE, TOTAL
PERFLUOROBUTANOIC ACID		PROPYL ACETATE
PERFLUOROBUTANOIC SULFONATE		PROPYLENE OXIDE
PERFLUOROOCTANE SULFONAMIDE		PROPYLENGLYCOL, TOTAL
PERFLUOROOCTANE SULFONATE		PROTACTINIUM 234, DRY WEIGHT
PERFLUOROOCTANOIC ACID		PURGEABLE AROMATICS METHOD 602
PERMETHRIN, TOTAL		PURGEABLE HYDRO-CARBONS, METH. 601
PERTHANE		PURGEABLE ORGANIC HALIDES
PESTICIDES, GENERAL		PYMETROZINE
P-ETHYLTOLUENE		PYRENE
PETROL HYDROCARBONS, TOTAL		PYRENE, DRY WEIGHT
RECOVERABLE		PYRETHRINS
PHENACETIN		PYRIDINE
PHENANTHRENE		PYRIFENOX
PHENANTHRENE, DRY WEIGHT		QUARTERNARY AMMONIUM COMPOUNDS
PHENOL, SINGLE COMPOUND		QUINOLINE
PHENOLIC COMPOUNDS, SLUDGE TOTAL, DRY WEIGHT		RADIATION-GROSS ALPHA TOT DISSOLVED
PHENOLIC COMPOUNDS, UNCHLORINATED		RADIATION-GROSS ALPHA TOT SUSPENDED
PHENOLICS IN BOTTOM DEPOSITS (DRY WGT)		RADIATION, GROSS BETA
PHENOLICS, TOTAL RECOVERABLE		RADIATION, GROSS ALPHA
PHENOLS		RADIOACTIVITY
PHENOLS, CHLORINATED		RADIOACTIVITY, GROSS
PHENOXY ACETIC ACID		RADIUM 224
PHENYLPROPANOLAMINE		RADIUM 226 + RADIUM 228, TOTAL
PHENYLTOLOXAMINE		RADIUM 226, DISSOLVED
PHORATE		RADIUM 228, TOTAL
PHOSMET, ORGANIC PESTICIDE		RARE EARTH METALS, TOTAL
PHOSPHATED PESTICIDES		RATIO OF FECAL COLIFORM TO FECAL STREPOC
PHOSPHOROTHIOIC ACID 0,0,0-TRIETHYL ESTR		R-BHC (LINDANE) GAMMA
PHTHALATE ESTERS		RDX, DISSOLVED
PHTHALATES, TOTAL		RDX, TOTAL
PHTHALIC ACID		RESIN ACIDS, TOTAL
PHTHALIC ANHYDRIDE		RESORCINOL
PIRIMICARB		RHODIUM, TOTAL
PLATINUM, TOTAL (AS PT)		ROTENONE
POLONIUM 210		ROUNDUP
POLYACRILAMIDE CHLORIDE		ROVRAL
		RUBIDIUM, TOTAL (AS RB)

SAFROLE
SAMARIUM, TOTAL (AS SM IN WATER)
SELENIUM SLUDGE SOLID
SELENIUM, ACID SOLUBLE
SELENIUM, DISSOLVED (AS SE)
SELENIUM, DRY WEIGHT
SELENIUM, POTENTIALLY DISSOLVD
SELENIUM, SLUDGE, TOTAL DRY WEIGHT
SELENIUM, TOTAL (AS SE)
SELENIUM, TOTAL RECOVERABLE
SEVIN (CARBARYL) IN TISSUE
SEVIN (CARBRYL)
SILVER
SILVER TOTAL RECOVERABLE
SILVER IN BOTTOM DEPOSITS (DRY WGT)
SILVER, DISSOLVED (AS AG)
SILVER, IONIC
SILVER, POTENTIALLY DISSOLVED
SILVER, TOTAL (AS AG)
SILVER, TOTAL PER BATCH
SILVEX
SODIUM CHLORATE
SODIUM DICHROMATE
SODIUM DIMETHYL-DITHIOCARBAMATE,
TOTAL
SODIUM-O-PPTH
SODIUM PENTACHLORO- PHENATE
SODIUM POLYACRYLATE, TOTAL
SOPP
SOPP, LOADING RATE
STIROFOS
STROBANE
STRONTIUM 90, TOTAL
STRONTIUM, DISSOLVED
STRONTIUM, TOTAL (AS SR)
STYRENE
STYRENE, TOTAL
SULFABENZAMIDE
SULFACETAMIDE
SULFATHIAZOLE
SULFOTEPP (BLADAFUME)
TANNIN AND LIGNIN
TCDD EQUIVALENTS
TCMTB
TEBUCONAZOLE
TEBUPIRIMFOS
TEBUTHIURON ORGANIC PESTICIDE
TECHNETIUM-99
TEFLUTHRIN
TELLURIUM, TOTAL
TEMEPHOS
TERBACIL
TERBUFOS
TERBUFOS (COUNTER) TOTAL
TERBUTHYLAZINE ORGANIC PESTICIDE
TERBUTRYN, ORGANIC PESTICIDE

TETRA SODIUM EDTA
TETRACHLORDIBENZOFURAN, 2378-(TCDF)
SED,
TETRACHLORO BENZENE
TETRACHLOROETHANE, TOTAL
TETRACHLOROETHENE
TETRACHLOROETHYLENE
TETRACHLOROETHYLENE, DRY WEIGHT
TETRACHLOROGUAIACOL (4CG) IN WHOLE
WATER
TETRAHYDRO-3,5-DIMETHYL-2-HYDRO-
1,3,5-TH
TETRAHYDROFURAN
TETRAMETHYL AMMONIUM HYDROXIDE
TETRAMETHYLBENZENE
THALLIUM 208
THALLIUM IN BOTTOM DEPOSITS (DRY
WGT)
THALLIUM, ACID SOLUBLE
THALLIUM, DISSOLVED (AS TL)
THALLIUM, POTENTIALLY DISSOLVED
THALLIUM, TOTAL (AS TL)
THALLIUM, TOTAL RECOVERABLE
THC, DRY & 02
THEOPHYLLINE
THIABENDAZOLE
THIOBENDAZOLE
THIOCARBAMATES
THIOCYANATE (AS SCN)
THIOSULFATE ION(2-)
THORIUM 230
THORIUM 232
THORIUM 232 PCI/G OF DRY SOLIDS
THORIUM 234
TIN
TIN, DISSOLVED (AS SN)
TIN, TOTAL (AS SN)
TIN, TOTAL RECOVERABLE
TIN, TRI-ORGANO-
TITANIUM, DISSOLVED (AS TI)
TITANIUM, TOTAL (AS TI)
TITANIUM, TOTAL DRY WEIGHT (AS TI)
TOLUENE
TOLUENE, DISSOLVED
TOLUENE, DRY WEIGHT
TOLUENE-2,4 -DIISOCYANITE
TOLYTRIAZOLE
TOPSIN
TOTAL ACID PRIORITY POLLUTANTS
TOTAL BASE/NEUTRAL PRIORITY
POLLUTANTS
TOTAL PESTICIDES
TOTAL PHENOLS
TOTAL POLONIUM
TOTAL PURGEABLE HALOCARBONS
TOTAL TOXIC ORGANICS (TTO) (40 CFR 413)

TOTAL TOXIC ORGANICS (TTO) (40 CFR 433)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 464A)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 464B)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 464C)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 464D)
TOTAL TOXIC ORGANICS(TTO) (40 CFR 465)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 467)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 468)
TOTAL TOXIC ORGANICS (TTO) (40 CFR 469)
TOTAL VOLATILE PRIORITY POLLUTANTS
TOXAPHENE
TOXAPHENE, DRY WEIGHT
TOXICS, PERCENT REMOVAL
TRANS-1,2-DICHLORO-ETHYLENE
TRANS-1,3-DICHLORO PROPENE
TREFLAN (TRIFLURALIN)
TRIADIMEFON ORGANIC PESTICIDE
TRIBUTHYLAMINE
TRIBUTYL TIN
TRICHLOROBENZENE
TRICHLOROBENZENE 1,2,4 TOTAL
TRICHLOROETHANE
TRICHLOROETHENE
TRICHLOROETHYLENE
TRICHLOROETHYLENE, DISSOLVED
TRICHLOROETHYLENE, DRY WEIGHT
TRICHLOROFLUORO-METHANE
TRICHLOROGUAIACOL
TRICHLOROMETHANE
TRICHLOROPHENATE-(ISOMERS)
TRICHLOROPHENOL
TRICHLOROTOLUENE
TRICHLOROTRIFLUORO-ETHANE
TRICHLOROFON
TRIETHANOLAMINE
TRIETHYLAMINE
TRIFLURALIN (C13H16F3N3O4)
TRIHALOMETHANE, TOT.
TRIMETHYL BENZENE
TRINITROTOLUENE (TNT), DISSOLVED
TRINITROTOLUENE (TNT), TOTAL
TRIPHENYL PHOSPHATE
TRITHION
TRITIUM (1 H3), TOTAL
TRITIUM, TOTAL
TRITIUM, TOTAL COUNTING ERROR (PC/L)
TRITIUM, TOTAL NET INCREASE H-3 UNITS
TUNGSTEN, DISSOLVED
TUNGSTEN, TOTAL
U-236 TOTAL WTR
URANIUM 235, DRY WEIGHT
URANIUM 238

URANIUM, POTENTIALLY DISSOLVD
URANIUM, 235 TOTAL
URANIUM, 238 TOTALURANIUM, NATURAL, DISSOLVED
URANIUM, NATURAL, TOTAL
URANIUM, NATURAL, TOTAL (IN PC/L)
URANIUM, TOTAL AS U308
URANYL-ION
UREA
VERNAM (S-PROPYLDI-PROPYLTHIOCARBAMATE)
VINYL ACETATE
VINYL CHLORIDE
VINYL CHLORIDE, DRY WEIGHT
VOLATILE COMPOUNDS (GC/MS)
VOLATILE FRACTION ORGANICS (EPA 624)
VOLATILE HALOGENATED HYDROCARBONS
VOLATILE HALOGENATED ORGANICS (VHO), TOT
VOLATILE HYDROCARBONS
VOLATILE ORGANIC COMPOUND (VOC)
VOLATILE ORGANICS DETECTED
XANTHATES
XC POLYMER IN DRILLING FLUIDS
XYLENE
XYLENE, PARA-TOTAL
ZINC
ZINC IN BOTTOM DEPOSITS (DRY WGT)
ZINC SLUDGE SOLID
ZINC SLUDGE TOTAL
ZINC TOTAL RECOVERABLE
ZINC, DISSOLVED (AS ZN)
ZINC, DRY WEIGHT
ZINC, PERCENT REMOVAL
ZINC, POTENTIALLY DISSOLVED
ZINC, TOTAL
ZINC, TOTAL (AS ZN)
ZIRAM, ORGANIC PESTICIDE
ZIRCONIUM, TOTAL