

# **Annual Stormwater Monitoring Report**

## for

## Seattle-Tacoma International Airport

for the period July 1, 1999 through June 30, 2000

September 2000

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# **T** Port of Seattle

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## September 28, 2000

Prepared by

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## 1 EXECUTIVE SUMMARY

This Annual Stormwater Monitoring Report has been prepared pursuant to Special Condition S2.E of the NPDES permit for the Port of Seattle's Seattle-Tacoma International Airport (STIA). The Port took a total of 39 grab and 38 composite stormwater samples in the past year, bringing the 6-year totals to over 350 samples for each type. A total of 20 storms were sampled. The Port complied with all sampling and reporting requirements.

In summary, STIA stormwater quality, especially airfield runoff continues to have constituent concentrations lower than comparable regional studies. Moreover, results continue to demonstrate that typical concentrations in airfield outfall discharges are much lower than from the landside subbasin outfalls. This difference is most likely due to higher vehicular use in the landside areas and a higher degree of biofiltration present in the airfield subbasins. Nonetheless, overall STIA results are generally lower than results from other studies for roadways and commercial areas.

Final rounds of source tracing revealed sources of toxicity present in the SDN1 samples, where most whole effluent toxicity (WET) samples tested in 1998-99 did not meet Ecology performance standards. Forensic sampling and analysis techniques, namely metals chelation, indicated that zinc was the most likely toxicant, and was associated with runoff from two cargo buildings with galvanized metal rooftops. The Port is investigating how to remedy this situation, potentially through the use of media filtration treatment. Samples from the three other principal outfalls passed Ecology's performance standards.

The ongoing source tracing in SDE4 has not revealed any significant sources of fecal contamination associated with baseflow, dry-weather discharges or storm runoff. SDE4 discharges have exhibited sporadically elevated fecal coliform levels. In addition to the conventional methods used to date, this year, the

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source-tracing project also used the microbial source tracing (MST) technique developed at the University of Washington. This MST method isolates *E. coli* bacteria DNA in the samples and compares it to isolates from specific sources already characterized in the regional database. The Port plans to issue a separate report for this study at the conclusion of the project.

The Port eliminated several potential sources of contaminants in SDS1 and SDN1 runoff by re-routing drainage to the IWS. Several samples and observations in the past year showed sporadic, limited contamination associated with aircraft and ground service equipment (GSE) servicing. These BMPs are a direct result of the stormwater monitoring program.

Two short periods of winter weather triggered runway and other ground surface deicing at STIA in the past year. The Port monitored stormwater discharges during these events to characterize the presence, magnitude and duration of ground deicing chemicals in runoff. Key locations in receiving waters were continuously monitored for dissolved oxygen (DO) and other parameters before, during and after these events. The data did not indicate a distinct effect on DO in the receiving waters that could be discerned from the highly variable background conditions established through 3 months of monitoring prior to the events. The Port is preparing a report on this study, the second in two years.

Because of increasing interests in assessing aquatic effects of STIA discharges, the Port plans to study relocating several sampling locations for certain subbasins. Doing so increases the potential for samples to better reflect the influence of all factors prior to discharge to the respective receiving streams. Because most current sampling locations are in-pipe or well above the receiving waters, it may not be appropriate to compare STIA stormwater data to Washington State water quality standards. Nonetheless, toxicity testing in the past 2 years has shown no indications of toxicity present in samples from the three key outfalls that serve 67% of the total STIA storm drainage.

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#### 2 INTRODUCTION

The STIA stormwater monitoring program has been in place since 1993 pursuant to the National Pollutant Discharge Elimination System (NPDES) permit. The first permit was renewed and reissued on February 20, 1998, becoming effective March 1, 1998 (permit number WA-002465-1.) In early 1999, a major permit modification issued by Ecology reduced sampling frequency based upon a permit appeal settlement (WDOE 1999.) The Port will begin the next permit renewal process in 2001.

The Port conducts the required monitoring activities according to the specific guidelines and criteria of the Ecology-approved Procedure Manual for Stormwater Monitoring (POS, 1999a). This report summarizes and discusses results from the sixth year of sampling conducted in the 12-month period July 1999 through June 2000, the conclusions, and potential new initiatives to be undertaken. Results summarized in this report include data already submitted to Ecology in Discharge Monitoring Reports (DMRs) plus additional results from other samples unrelated to DMR reporting. The Port has previously submitted five Annual Reports (1995, 1996, 1997a, 1998a, 1999b)

This report satisfies Special Condition S2.E of the National Pollutant Discharge Elimination System (NPDES) permit for the Port of Seattle's (Port) Sea-Tac International Airport (STIA). Special Condition S2.E of the permit states: "On or before October 1 of each year, the Permittee shall submit a report to the Department summarizing the results of the stormwater monitoring conducted pursuant to Special Condition S2.B or S3.E of this permit during the preceding twelve (12) month period from July 1 through June 30. The report shall present the analytical data, the Port's conclusions as to what is being learned from the data, and any new initiatives to be undertaken as part of the Stormwater Pollution Prevention Plan for Airport Operations required in Special Condition S12."

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Additionally, Special Condition S2B of the permit requires that: "The permittee shall include the following data for each storm event in the Annual Stormwater Monitoring Summary Report...: date, duration, the number of dry hours preceding the storm event, total rainfall during the storm event (inches), maximum flow rate during the rain event (gallons per minute), and the total flow from the rain event (gallons). The permittee shall also include a monthly summary of daily rainfall...". All of the information required under Special Condition S2B appears in Appendix A.

#### 3 BACKGROUND

## 3.1 Sea-Tac International Airport

Seattle-Tacoma International Airport (STIA) lies about mid-way between the cities of Seattle and Tacoma, Washington. The airport was built in the 1940s and has expanded throughout the years to become the 18<sup>th</sup> busiest airport in the U.S. The highly urbanized cities of SeaTac, Des Moines, and Burien surround the airport.

STIA storm drainage discharges through 14 individual outfalls, four that drain to Miller Creek, eight that drain to Des Moines Creek, and two that drain to a City of SeaTac system. These outfalls drain a total of 963 acres which contain about 44% impervious surfaces. Only 17% of this total area (165 acres) drains to Miller Creek, while the remaining 798 acres drains to Des Moines Creek. Another 370 acres, mostly the impervious surfaces of terminal gate and ramp areas, drain to the Industrial Waste System (IWS) and the Industrial Waste Treatment Plant (IWTP.) Three large lagoons detain and equalize runoff flowing to the IWTP which removes suspended solids and petroleum products using the dissolved air flotation unit process. The IWTP discharges directly to Puget Sound via a separate outfall that combines with the Midway sewage treatment plant. IWTP sampling results are not included in nor required to be addressed in this report.

The Port is examining future stormwater management needs in the Preliminary Comprehensive Stormwater Management plan (CSMP) which is part of the Master Plan Update. Issues addressed in this plan include the potential retrofit of existing development to meet state and local guidelines for stormwater quantity and quality BMPs (POS, 2000).

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## 3.2 STIA Storm Drainage Subbasins

The NPDES permit refers to outfalls by number; however, this report refers to subbasins and their outfalls by location names (see Table 1). The Port codes STIA storm drainage subbasin names according to location, for example, "SDS1" means "storm drain south number 1". In addition, the Port identifies all manholes according to an alphanumeric scheme, some of which are referred to in this report. For convenience and consistency, many of these locations were renamed and renumbered in 1999, though physical monitoring locations have not been moved. Drainage area estimates are included in Appendix A. Figure 1 shows the individual stormwater drainage subbasins and the STIA stormwater management boundaries.

STIA stormwater subbasins fall into the general categories listed in Table 1. These categories group subbasins together that have similar land use and other characteristics. These categories include "landside," "airfield," and other nonspecific, low-activity areas. Previous reports showed that concentrations of TPH, TSS and other constituents were different for the landside and airfield categories (POS, 1996, 1997a.)

Outfalls SDS3, SDS4, SDN3, and SDN4 drain the principal subbasins of the airfield. These four outfalls drain a total of 626 acres (45% impervious) of the Aircraft Movement Area (AMA), which includes the airport runways, taxiways, and other open space of the "airfield." These four airfield subbasins represent approximately 65 percent of the total STIA storm drainage area. Previously an airfield outfall, SDN2 now discharges to the Industrial Waste System (IWS) via two pump stations constructed as BMPs in 1997.

Four subbasins (SDE4, SDN1, EY, and TY) compose the 165 acres (60% impervious) of "landside" areas of the airport, primarily draining public roads, parking, passenger vehicle areas and rooftops. Although 11 percent of the total impervious area of SDE4 drains portions of Taxiways A and B, the "landside"

designation is appropriate because roads, parking, and other vehicle areas on the landside of the airport dominate the total impervious area of SDE4.

Outfall #	Port Name	Category	Creek	Proximity to receiving water
002	SDE4	landside	Des Moines	Combines w/Bow Lake & City flows before daylighting in East Branch
003	SDS1	none	Des Moines	Direct outfall to East Branch
004	SDS2	none	Des Moines	Flows through swale, NW Ponds then into W. Branch
005	SDS3	airfield	Des Moines	Flows through swale, NW Ponds then into W. Branch Flows through 1000'+ natural channel
006	SDN1	landside	Miller	and Lake Reba detention Pond
007	SDN2	Drains to IWS	Miller	Same as SDN1
008	SDN3	airfield	Miller	Same as SDN1
009	SDS4	airfield	Des Moines	Direct outfall near confluence of East and West Branches
010	SDS7 <sup>2</sup>	none	Des Moines	Combines w/City streets commercial area, via swale & NW Ponds
011	SDN4	airfield	Miller	Same as SDN1
012	EY	landside	Gilliam	Via City drains to stream
013	TY	landside	Gilliam	Via City drains to stream
014	SDS6 <sup>2</sup>	none	Des Moines	Same as SDS7
015	SDS5 <sup>2</sup>	none	Des Moines	Same as SDS7

Table	1	Outfall	Nomenclature
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Table notes:

 Two pump stations divert all runoff from the former SDN2 subbasin to the IWS. Discharges to SDN2 only occur when rainfall intensity exceeds the 0.20 inches per hour design for these pump stations. These two pump stations were constructed in 1997 as SWPPP BMPs.
 Outfalls 010, 014 and 015 were previously named "SDW3", "B" and "D", respectively

In previous reports, the SDS1 subbasin was included in the "terminal" category. However, several stormwater BMPs were undertaken in 1996-97 near the terminal, removing 1.5 acres of ramp areas from SDS1. Other BMPs disconnected yet more ramp area that occasionally drained to SDS1 when intense rainfall surcharged certain structures. As a result, SDS1 now drains mostly rooftops, plus a minor area of ramp. Therefore, the "terminal" category is no longer appropriate for SDS1. In addition, recently expanded drainage from South 188th Street was added to SDS1 in 1998-99, increasing the total offsite (non-Port) area to 5.1 acres, nearly 50% of the total SDS1 area.<sup>1</sup> Four other outfalls (SDS2, SDW3, B, and D) drain 110 acres, mostly open spaces (11% impervious) in the southwest portion of STIA.

## 3.3 Sampling locations

The Port monitors stormwater discharges at 14 locations, one for each subbasin within the boundary of the permit. Figure 1 shows the location of the outfalls and monitoring locations.

Four monitoring locations (subbasins SDE4, SDN1, EY, and TY) are upstream from the final discharge point where the outfall actually "daylights". Runoff contributions from other, non-STIA sources that are outside the Port's jurisdiction enter these storm drains and therefore necessitate monitoring at the first location, often a manhole, upstream of the majority of offsite inputs. Table 2 lists these offsite influences. However, offsite runoff is inextricable for sampling stations for SDE4, SDS1, SDS2, and SDS3. Considering that the offsite area for outfalls SDS1 and SDS2 is primarily roadways, the contribution from non-Port entities is substantial.

To remove unfavorable biases from highway SR518 runoff, the sampling location for SDN1 was moved upstream to its current location in 1997. Therefore, outfall SDN1 has two datasets, one for the period prior to January 1997 that includes results influenced by SR518 runoff, and the other for the more-representative

<sup>&</sup>lt;sup>1</sup> In 1998-99 the City of SeaTac added drainage area to SDS1 through the widening of about 800 linear feet of S. 188th Street, adding curb, gutter, piping and a number of storm drain inlets. This section of roadway previously drained sheetwise off the shoulder to grassed ditches. Prior to these improvements, only one inlet drained a much smaller portion of this public roadway that is outside the Port's jurisdiction.

location at "SDN1up" for the ensuing period. See the discussion for Figure 11 and Figure 12 in Section 4.5.3.

It is important to note that because of their distance from receiving waters, certain current sampling locations do not integrate all possible factors that could influence water quality prior to discharging to the streams. Only two of STIA's current outfalls (SDS1 and SDS4) discharge directly to the receiving waters. These two outfalls are sampled at these "daylight", or end-of-pipe locations.

In contrast, because of factors in addition to those mentioned above, all other outfalls are sampled at points well-removed from the biotic community. See Table 1. As a result, the sampling results do not reflect the complex, interactions with chemical, physical, and biological elements that can enhance water quality prior to where STIA stormwater actually enters receiving waters.

For example, drainage from all four Miller Creek outfalls (SDN1, SDN2, SDN3, and SDN4) passes through additional piping and more than 1000 linear feet of open, natural channels, and the Lake Reba detention pond prior to entering Miller Creek. The potential influences of these factors, especially considering that the detention pond is a constructed BMP, are not accounted for in the current sampling scheme required by the permit. These issues should be addressed in the NPDES permit renewal.

## 3.4 Storm sampling procedures and analytes

The Port's Procedure Manual for Stormwater Monitoring (POS 1999a) describes the criteria for sampling storm events, and describes all relevant sampling, programming, and handling necessary to comply with requirements of the permit. Table 4 lists required sampling frequencies, constituent analytes, methods, and detection limits. The Port reports data on DMRs only where results from storms and samples meet representativeness criteria of the manual. In addition to data provided in the DMRs, results from samples not meeting these criteria or those taken for other purposes are also included in this report. Using automatic samplers, the Port generally takes a grab sample then a flow-weighted composite sample during rainstorms of 0.20 inches or greater that are preceded by less than 0.1 inch of rainfall in the previous 24 hours.

Outfall (manhole) <sup>2</sup>	Total Area (ac)	Offsite Area (ac)	Percent Offsite	Comment
SDE4 (SDE4-65)	149	0.6	<1%	Offsite area of SR99, may be greater than 0.6 acre Offsite area of S. 188th St. includes
SDS1 (outfall)	10.7	5.1	47%	Offsite area of S. 186th St. metadoo         area added by City in Fall 1998         Offsite 16th Ave S., S. 188th St, and
SDS2 (outfall)	13.2	2.9+	>21%	possible non-Port commercial area.
SDS3 (outfall)	462	3	< 1%	Approximate offsite area of S. 188th St.
SDN1 (manhole SDN1-56)	24+	9.9+	>40%	Former SDN1 location includes public road runoff. Runoff from additional 49 acres of non-POS area enters below this point prior to entering Lake Reba Air Cargo Road is about 50% of SDN1.
SDN1up (SDN1-41)	13.8	0	0%	Air Cargo Road is about 50% of SDAT.

Table 2 Offsite Influences Affecting STIA Monitoring Locations<sup>1</sup>

Table notes

1. All area estimates are as of 27 October 1998 and subject to change.

2. Though manhole number designations were changed in 1999, sampling locations remained the same as in previous years.

			Applicable Subbasins				
Analyte	Method <sup>(a)</sup>	Detection limit (MDL) mg/l	SDE4, SDS3, SDN1, SDN4	EY TY, SDN2	SDS1, SDN2	SDS1, SDS2, SDN3, SDS4, SDS5, SDS6, SDS7	
pH <sup>(e)</sup>	150.1	0.1	X	X	X	X	
FOG (Oil and Grease)	413.1	1.0	(f)	(f)	(f)	(f)	
TPH (IR)	418.1 mod <sup>(b)</sup>	1.0	(f)	(f)	(f)	(f)	
TPH (GC)	NWTPH-Dx	0.15	X	×	X	X	
Fecal coliforms (MPN)	9221 E	2	X	n/a	n/a	x	
TSS (total suspended solids)	160.2	0.5	x	×	x	x	
Turbidity	180.1	0.1	X	n/a	X	X	
BOD <sub>5</sub>	405.1	4	X	n/a	X	n/a	
Total Glycols <sup>(c)</sup>	GC FID	4	X	n/a	X	X	
Total Recoverable copper, lead, zinc <sup>(d)</sup>	200	Cu: 2 µg/l Pb: 2 µg/l Zn: 5 µg/l		n/a	n/a	n/a	

## Table 3 Analytes, Methods and Detection Limits

(a) Method refers to EPA-600/4-79-020, March 1979. Fecal coliform method refers to 18th edition of Standard Methods for the Examination of Water and Wastewater (APHA, 1995), or as revised.

(b) Washington State Department of Ecology method WTPH-418.1 Modified.

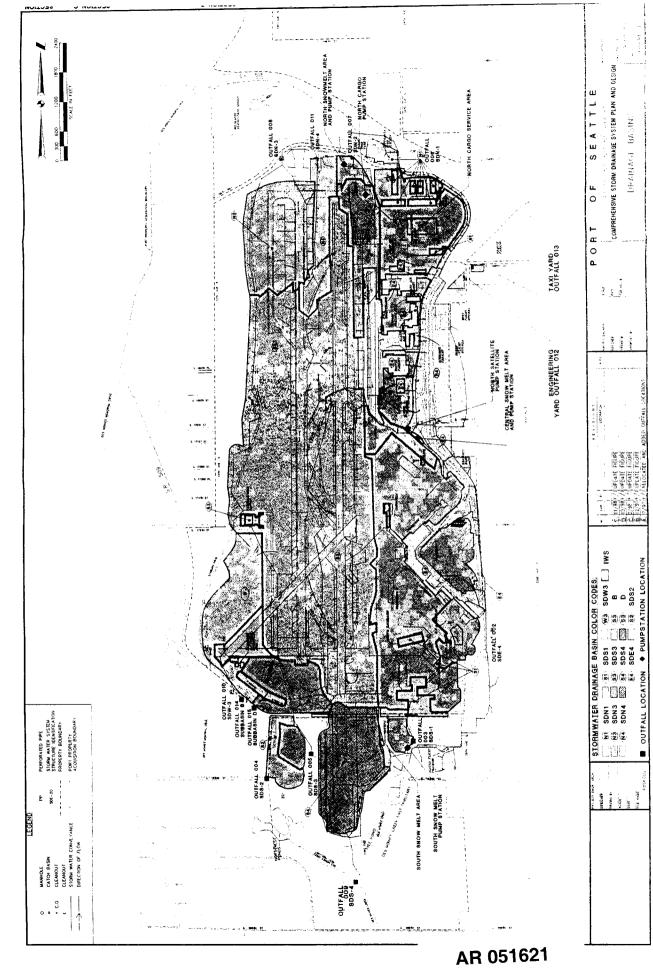
(c) Analyzed by Gas Chromatograph, Flame Ionization Detector

(d) Lead and copper by atomic absorption (AA) furnace, zinc by ICP.

(e) pH is not required by permit, but is used as a reference parameter

(f) FOG and TPH (IR) methods replaced by NWTPH-Dx March 1, 1998.

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#### 4 SAMPLING RESULTS

#### 4.1 General

This chapter presents and discusses data separately for results from grab samples, composite samples, and deicing event (glycol) samples. These types of samples employ different protocols that represent different temporal periods of the particular stormwater discharge event (i.e., grab samples versus composite samples) and should be addressed separately.

The required hydraulic and hydrologic data are included in Appendix A. Samples were validated according to the representativeness criteria described in the Port's Procedure Manual for Stormwater Monitoring (Port 1999a). Appendix B tabulates and summarizes analytical results for each outfall. Data previously submitted to Ecology in the monthly DMRs represent samples collected strictly from those storms and sampling routines that fully met the criteria of the Procedure Manual. In addition to this DMR data, this report summarizes all other data collected at the storm drain outfalls covered under the NPDES permit (Table 1).

#### 4.2 Data Presentation Methods

This report compares the Port's stormwater data to others' stormwater data listed as reference comparators in Table 4. Most reference comparators discussed in this report were the lowest results from two City of Bellevue studies. These comprehensive, local studies had similar sampling protocols to the Port's. However, the samples in the 1995 Bellevue study were taken at instream stations and therefore reflect receiving water conditions during stormflows, as opposed to just outfall discharges. Nonetheless, contrasting STIA *outfall* discharges to this *instream* comparator results in more conservative conclusions. This report uses the Portland NPDES data for copper because it better represents commercial and industrial outfall discharges *before* mixing with

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receiving waters. Again, the reader should consider the nature of the STIA sampling locations discussed in Section 3.3.

Comparator data and outfall sampling results appear on box plots that illustrate the central tendency, spread, and skew of the Port's data (Figures 2 through 9). The bold line within a box represents the median value, while the bottom and top of a box show the 25th and 75th percentiles, respectively. In other words, the interquartile range (central 50 percent) of the data fall within values highlighted by the box. SPSS software was used to generate the box plots (SPSS 1999).

When summarizing data to compare typical values, outliers usually represent unusual conditions, atypical of what could be expected under usual circumstances. In a box plot, the "whiskers" show the largest values that are not considered outliers. SPSS box plots show two types of outliers: those more than 1.5 box-lengths from the 75th percentile plotted with the symbol "o", and those more than 3.0 boxlengths with a star symbol ("\*"). In most cases, the boxplots show the outliers, but in some cases the scales selected prevent plotting all outliers. All data are tabulated in Appendix B.

#### 4.3 Storm events sampled

The 1999-2000 sampling season began on July 1, 1999 and ended June 30, 2000. During this 12 month period, 36.8 inches of rain fell at STIA, which is 4% below the 60+ year average. The 9.6 inches of rainfall in November 1999 was about 50% more than the average of 6 inches. Unlike the 1998-99 period, influenced by the very wet La Nina weather pattern, rainfall in the past year was much more typical and no new records were set. See Figure 2.

In the 12 months ending June 2000, the Port sampled 19 rainfall events. Rainfall during these events ranged from 0.1 to 1.76 inches. These events were preceded by less than a day to up to 2 weeks of dry weather. There were no

qualifying sample events in the month of September 1999. Appendix A summarizes daily rainfall and storms sampled.

r		Study						
Constituent	Units	NURP, 1983	BURP, 1984		Bellevue, 1995 <sup>(b)</sup>	Highway Runoff <sup>(c)</sup> 1981	Portland NPDES <sup>(d)</sup> 1993	WA State Standard <sup>(e)</sup>
pH	std units		5.2 - 7.4		7.2 - 7.8			6.5 - 8.5
TPH	mg/l				3.7		6.5	no standard
Fecal	mpn per 100 ml	1000 to 21000	980		201			50
BOD <sub>5</sub>	mg/l	9	1216.6.4				20	no standard
TSS	mg/l	100	<b>150</b>		82.3	106	119	no standard
Turb	mg/l		19	<u> </u>	29.4			based on background
glycols	mg/l		not ana	l alyzed ii	n any of the	se studies	<u> </u>	no standard
Cu (TR) <sup>(f)</sup>	μ <u>g</u> /l	34		20	10.4	43	40	10.3 <sup>(r)</sup>
Pb (TR) <sup>(f)</sup>	µg/1	144	170	210		466 <sup>(c)</sup>	25	39 <sup>(f)</sup>
Zn (TR) <sup>(f)</sup>	µg/l	160	120	110	161.4	638	376	72 <sup>(t)</sup>
statistic re		median	mean <sup>(g)</sup> ,	mean	log-	mean	median	metals standards <sup>(f)</sup> at
			median		normal			hardness =56 mg/l
					median			

## Table 4 Stormwater Quality Comparators<sup>a</sup>

(a) Comparative Values in bold. Blank space means no data available, reported, or applicable.

(b) Bellevue, 1995 data are for instream samples from the "Sturtevant Creek, downstream" site.

(c) Highway runoff from an IS location in Seattle with 57,000 ADT, 43 to 54 storm samples in 1980-81 (Chui, Mar, and Horner,

1982). Because this study was conducted prior to the phase-out of leaded gasoline, lead results were higher than other later studies.

(d) City of Portland 1993 NPDES Part 2 Municipal Application. Median of 10 samples from I2 "industrial" outfall.

(e) Standards are for class AA waters, see WAC 173-201A.

(f) Total recoverable metals. WA State acute standards expressed as total recoverable, calculated at 56 mg/l hardness using Ecology's "TSDCALC8.XLW" spreadsheet. This hardness value is the median of seven instream samples collected in Miller and Des Moines Creeks in 1999.

(g) For Turb, Cu, Pb, and Zn, BURP 1984 data was mean of grab samples, therefore Bellevue, 1995 data are more representative comparators because they represent median of composite samples.

Unlike the 1998-99 season, in the past year there was only a single summer storm event associated with higher than typical constituent concentrations. In

previous years, thunderstorms producing intense rainfall after protracted dry periods of a month or more caused elevated levels of certain constituents. These meteorological factors resulted in the unusual combination of a lengthy accumulation period and a high scour from the intense rainfall. Several fall 1998 storms followed this pattern. These factors are important to take into account when considering how representative a particular sample result is given the naturally occurring, and perhaps infrequent seasonal influences.

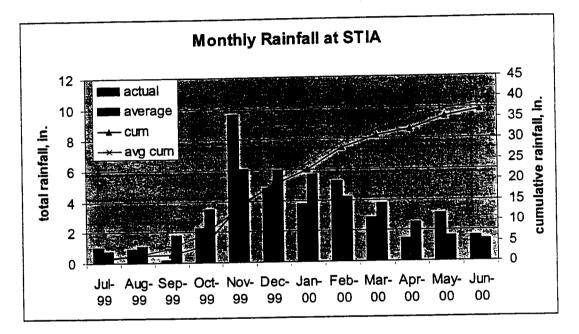


Figure 2 Rainfall Summary

#### 4.4 Grab Sample Results

The following discussion includes results from 39 grab samples collected in the past year, bringing the 6-year total to 399 total grab samples.

## 4.4.1 Total Petroleum Hydrocarbons (TPH)

The results from the current year presented in Figure 2 continue to demonstrate that concentrations of petroleum-type constituents in STIA stormwater are consistently less than in stormwater from other urban areas.

The TPH method was changed from an infrared absorbance (IR) method (WTPH 418.1) to a gas-chromatographic (GC) method (NWTPH-Dx.) in 1998. Only results from the new method are discussed below. A previous Annual Report (POS, 1998a) demonstrated that data from the old and new methods are comparable. The results indicate the following:

- STIA stormwater overall continues to have less petroleum-type constituents than typical urban runoff. During the past 3 years, more than 95 percent of the 161 STIA results were less than the Bellevue, 1995 median (instream samples) of 3.7 milligrams per liter (mg/l). All 39 samples in the past year were below the Bellevue median. The overall STIA TPH median dropped from 0.4 to 0.3 mg/l because of low results in the past year. On the whole, TPH was not detected in 58 (36%) of a total of 161 samples taken since March 1998.
- Airfield stormwater (SDS3, SDS4, SDN3, and SDN4) continues to contain far less TPH than runoff from the landside subbasins (SDE4, SDN1, and TY.) To date, median airfield TPH is 0.08 mg/l compared to the 1.0 to 2.5 mg/l median levels for the four landside outfalls. TPH was not detected in 43 (67 percent) of the 64 airfield outfall samples analyzed by the new method in the past three years. The maximum TPH value of these 64 airfield outfall samples was 0.5 mg/l, which is one half the detection limit of the previous TPH (IR) method of 1.0 mg/l. Current results are similar, with no new maxima. See Figure 3.

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- Because most of the TPH detected in landside runoff is motor oil, it is likely attributable to cars and trucks. Figure 2 and the tabular data in Appendix B show that motor oil represents the majority of the TPH at these outfalls (SDE4, SDN1, and TY.)
- The IWS effectively isolates aviation-related fuel spills and drips from the storm drains. For all outfalls, measurements of diesel fractions, which would represent certain constituents of aviation fuel (JP4, JP5, etc.) are typically below detection limits (90% of the 161 samples), with a historical maximum of 0.8 mg/l. Considering that subbasins SDE4 and SDS3 are contiguous with aircraft service (IWS) areas where fueling takes place, sample results for these two outfalls show low incidence of TPH. Up to 90% of the 30 samples from SDE4 had TPH less than the 3.7 mg/l comparative value for urban areas. More than 60% of the total of 30 SDS3 samples had non-detectable TPH.

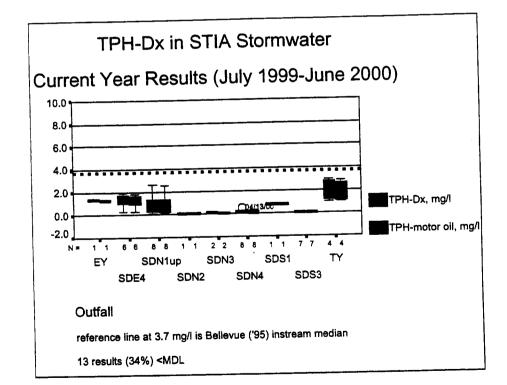


Figure 3 TPH for current year

#### 4.4.2 Fecal Coliforms

Overall, the median value for fecal coliforms in 302 samples to date is 42 per 100 ml, with more than two thirds of the results less than 200 per 100 ml. Relative to the comparative values (Table 4), these overall results indicate that STIA stormwater contains fewer fecal coliforms than typical urban stormwater. More than 81 percent of the 126 airfield subbasin samples taken to date showed fecal coliforms less than the Bellevue (1995) comparative value of 201 per 100 ml (see Figure 4). Current year results from a total of 32 samples from six outfalls continue this pattern, where 81 percent were less than the comparative value.

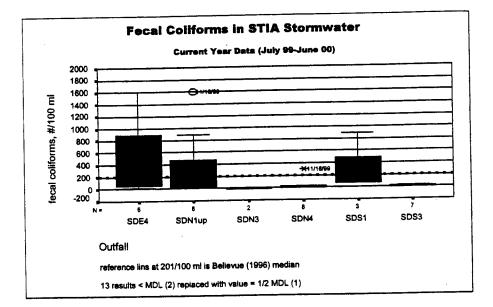


Figure 4 Fecal Coliforms for Current year

There are numerous sources of fecal coliforms including fecal waste products of birds and all mammals. Urban stormwater often contains fecal coliforms at sporadically elevated levels. Human sources, such as septage or sanitary sewage are not always implicated as contaminants. Importantly, all fecal coliform test methods often overestimate true fecal numbers, plus they are susceptible to interference from non-pathogenic coliform bacteria including Klebsiella species (U.S. EPA, 1986). Fecal coliforms are a presumptive indicator, meaning that if present, pathogens are presumed present as well, which may not always be the case.

To remove these sources of uncertainty and to better serve public health, the U.S. EPA stated in 1986 that *E. coli* and enterococcus-based methods and standards should be used by the states (U.S. EPA, 1986) as a means of measuring the presence of pathogens. Ecology is considering these changes in the triennial review of water quality standards process (WDOE, 1998, 2000b).

A method called the Microbial Source Tracing (MST) technique matches "fingerprints" isolated from *E. Coli* bacteria DNA with those previously characterized from known human and animal sources. The University of Washington's School of Environmental Health developed this technique which has been used in several surface water studies in the region. Using the MST technique, the limited sampling for the Des Moines Creek Basin Plan showed that some of the fecal contamination in the lower watershed was attributable to human septage and that animal sources exist as well (KCDNR, 1997). Human sources were less prevalent upstream nearer the airport, where dog and avian sources together comprised up to 34% of the results. This study had limited statistical power due to limited number of samples, plus a number of the isolates were unmatched with known sources. The Port is using the MST technique to identify potential sources in airport runoff. See Section 4.7.3.

In past reports, the Port showed that sporadically elevated numbers of fecal coliforms were found principally in the landside subbasin SDE4. Of the six current year results for SDE4, only two samples showed elevated results, while the remaining four were less than 200 per 100 ml, well within the typical range for STIA and other regional stormwater (see Table 4). Nonetheless, the Port is continuing the source tracing study intended to identify potential sources of contamination. Preliminary results, included in Section 4.7.3, do not indicate sanitary sewage as a source in storm or baseflows. Uncontaminated baseflow

samples indicate that there is no continuous source of fecal coliform bacteria, whether arising from human, animal or other sources. Investigations are targeted for completion by the end of the year.

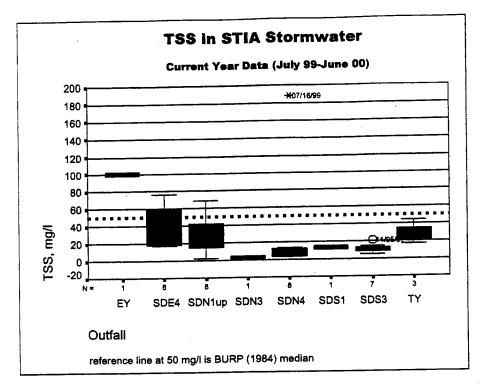
#### 4.5 Composite Sample Results

In the past year, the Port took a total of 38 flow-weighted composite samples, bringing the six-year total to 354 for all outfalls. The discussion of these composite sample results are segregated from grab samples because grab samples represent only instantaneous values. Composite sample results, especially those from samples that comprise the entire hydrograph, represent an average value or event-mean concentration (EMC) existing over a longer time period. There were no non-representative composite sample results for the past year. All composite samples analyzed met representativeness criteria of the Procedure Manual.

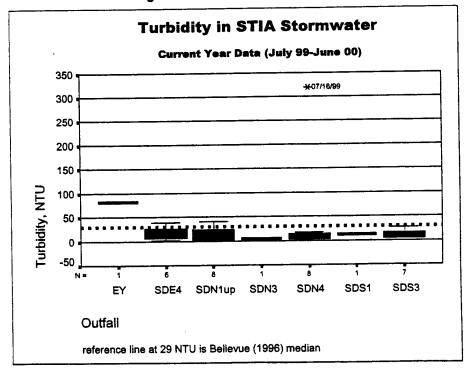
#### 4.5.1 Suspended Solids and Turbidity

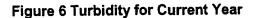
STIA outfalls continue to discharge typically less total suspended solids (TSS) and turbidity than urban areas. In the six-year sampling history at STIA, more than 80 percent of the 327 TSS samples and 281 turbidity samples were below the comparative values of 50 mg/l, and 29 NTUs, respectively. As shown in Figure 5 and Figure 6, the majority of results for the past year continue to be consistently low.

The four airfield outfalls (SDS3, SDS4, SDN3, and SDN4) continue to produce less TSS and turbidity than the two principal landside subbasins (SDE4 and SDN1). In the past six years, 86 percent of the 121 TSS results from the airfield outfalls were less than one-half the regional comparative median value. Because these airfield outfalls represent about 61 percent of the total SDS area, the data show that the majority of STIA runoff is much lower in suspended material than runoff from comparable regional urban areas.



#### Figure 5 TSS for Current Year





Unlike the previous reporting period, in the past year, there was only one storm event associated with higher than typical TSS and turbidity, which occurred at SDN4 on July 17, 1999. This one-time occurrence was due to vehicle activity disturbing a small area of soils on a nearby Port construction project. The erosion control BMPs already in place were adjusted to better prevent recurrence. The next storm sample at SDN4 did not exhibit unusual TSS or turbidity.

The Port's construction erosion and sediment control program provides effective erosion and sediment controls. The stormwater batch treatment system used over the past two seasons for the third runway embankment project was highly effective. Discharges from this system always met water quality standards for turbidity in Miller Creek, and in fact, were typically much cleaner than background conditions in the creek upstream from the project (Tobiason et al., 2000).

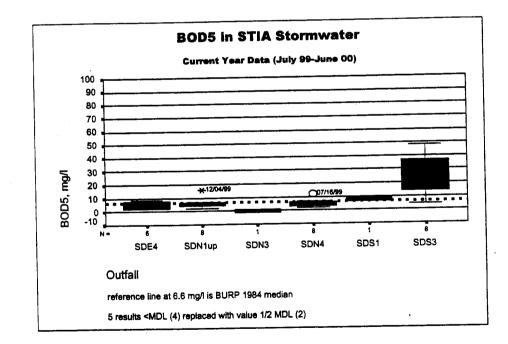
## 4.5.2 Biochemical Oxygen Demand (BOD5)

Results for the past year continue to indicate overall low levels of  $BOD_5$  in STIA stormwater. In 32 samples analyzed in the past year, the median  $BOD_5$  was 5.6 mg/l, and 57 percent of all samples were below the 6.6 mg/l regional urban comparator (BURP, 1984, see Table 4). The 95<sup>th</sup> percentile of the samples associated with routine, non-ground deicing operations was 22 mg/l. See Figure 7.

Principal sources of elevated BOD<sub>5</sub> concentrations in the past were associated primarily with infrequent and short-lived winter weather episodes and ground surface deicing. During these events, acetate-based ground surface deicing chemicals are the primary sources of BOD<sub>5</sub>. The Port discontinued the use of urea and glycol-based ground surface deicers in 1996. There have been only a few isolated indications of limited BOD<sub>5</sub> contributions to stormwater from aircraft deicing glycols. The Port has rerouted drainage from a limited area near the South Satellite that can receive infrequent aircraft deicing/anti-icing fluids

(ADAFs) when and if applied to aircraft at gates S3 and S4. See Section 4.7.3. All other known direct sources of glycols have been eliminated from the storm drains through numerous BMPs (POS, 1998c).

In the past year, two limited periods of winter weather occurred: January 11-12, 2000 and January 18-19, 2000. Section 4.6 discusses these in more detail. The minor snowfall from the first event did not require plowing or storage of snow in the snowmelt BMP areas. There was no snowfall associated with the second event. During both of these events, there were no discharges from outfall SDN2, which could drain the north snowmelt BMP area in the event of an IWS pump station bypass<sup>2</sup>. Compared to past years, snowfall and chemical usage, including aircraft glycols, was far less (POS 1998b, POS 1997b.) One sample taken during the first event had an elevated BOD<sub>5</sub> concentration of 646 mg/l. Both events were monitored at key receiving stream stations as part of the second-year Dissolved Oxygen Study (in press).



#### Figure 7 BOD<sub>5</sub> for Current Year

<sup>&</sup>lt;sup>2</sup> The entire drainage area of outfall SDN2 was re-routed to the IWS in 1997 as a result of two BMPs.

#### 4.5.3 Metals

All data reported below are for total recoverable metals. It is important to note that Washington State Water Quality Standards (WAC 173-201A) apply to the receiving waters, not to the discharges from a particular outfall. See the discussion in Section 3.3 concerning the STIA monitoring locations relative to the receiving streams.

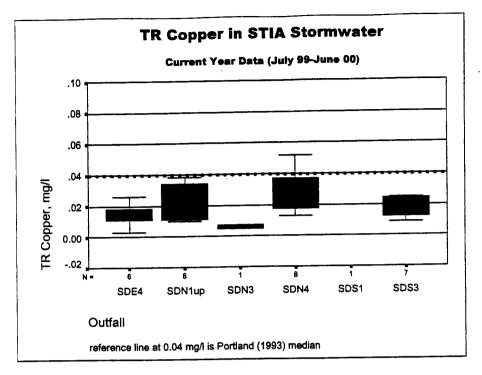
The Washington State water quality standards for copper, lead, and zinc are based on the dissolved fraction of the metal. Because of complex water chemistry, only a portion of the dissolved fraction is actually bioavailable (Hall et al., 1997). Thus, direct comparisons of dissolved metals with standards may result in "false positives" where a sample is not actually toxic. Limited results for dissolved metals analyzed in source tracing studies appear in Appendix F. The comparisons offered below are based on the total recoverable metal using the non-specific partitioning coefficients provided in the water quality standards and Ecology's TSDCALC8 workbook. The application of site-specific coefficients for these calculations would be more appropriate.

#### 4.5.3.1 Copper

Overall, in 257 samples in the past six years, the median copper value for all outfalls is 0.025 mg/l. Airfield and landside outfall data in this case are similar, with medians ranging from 0.014 to 0.031 mg/l. See Figure 8. Generally, STIA data are less than the 0.040 mg/l median for copper from the City of Portland's sampling results (City of Portland, 1993.) This comparison is more representative of outfall discharges than the Bellevue, 1995 median of 0.01 mg/l which was for *instream* stormwater samples. However, note that the comparators listed in Table 4 show that urban runoff typically exceeds standards for copper.

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#### 4.5.3.2 Lead and zinc

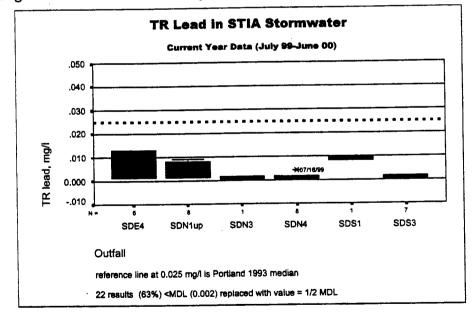
Samples from airfield outfalls continue to contain less lead and zinc concentrations than typical urban sources. In the six-year permit sampling history, over 75 percent of the 257 results for copper, lead and zinc in all STIA outfalls were below the median for comparable regional data for commercial areas. For the four airfield outfalls, which comprise more than 65% of the total SDS, nearly all (more than 97%) of the 120 sample results to date for lead and zinc were less than the comparators.

These comparisons have added significance given that the commercial/industrial comparators cited (see Table 4) are the most conservative data available. Plus, the lead and zinc comparators reflect *instream* sample concentrations after outfall discharges were mixed with receiving waters. Thus, metals in the vast majority of STIA stormwater, especially airfield runoff, are far lower than those

measured in other local and regional studies. Current results continue these patterns, See Figure 9 and Figure 10.

Much of the airfield outfall lead and zinc data are below water quality standards. All but one of 120 lead results in the past six years are below the standard of 0.039 mg/l calculated at a hardness of 56 mg/l (Table 4.) In fact, lead was not detected in 49% of these 120 total samples. Airfield zinc was similar in that more than 85% of the 120 results are less than the standard of 0.072 mg/l at 56 mg/l hardness<sup>3</sup>. See Figure 9 and Figure 10.

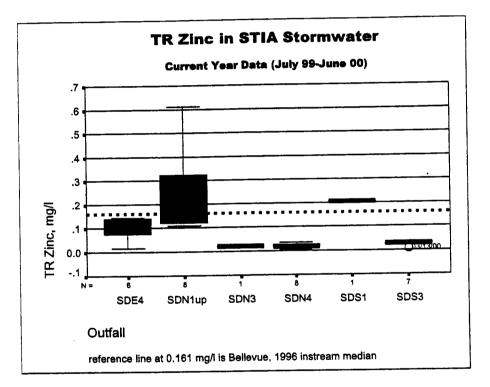
It should also be noted that lead and zinc concentrations measured in airfield outfall samples were far lower than those in the landside outfall samples were. The overall median lead and zinc values for principal airfield outfalls SDS3 and SDN4 were nearly 5 times less than for the landside outfalls SDE4 and SDN1. See Figure 9 and Figure 10. This difference is likely due to the amount of passenger and service vehicle usage in the landside areas.



#### Figure 9 Total Recoverable Lead for Current Year

<sup>&</sup>lt;sup>3</sup> In two storms in 1999, hardness values in seven Miller and Des Moines Creek instream composite samples ranged from 41 to 74 mg/l with a median of 56 mg/l.

The landside subbasins experience considerable vehicle traffic where tire wear is a likely source of zinc (EPA 1993). Roads and parking areas constitute more than 50 percent of the impervious surfaces draining to SDE4 and SDN1. The lower results for the airfield outfall samples are most likely attributable to the fact that airfield runoff flows through grass areas prior to draining to the piping system. Certain portions of landside subbasins SDE4 and SDN1 will be assessed for appropriate BMP retrofits, such as biofiltration, according to the recent CSMP (POS, 2000).





#### 4.5.3.3 outliers

There were no copper, lead or zinc outliers that were associated with elevated TSS and/or turbidity as was discussed in last year's Annual Report. However, there was a new maximum copper value from the SDS1 sample of July 2, 1999, which is above the scale in the figure below. This copper result is believed

attributable to an inappropriate connection near the South Satellite that drains to SDS1. The Port implemented a BMP for this situation in September 2000, rerouting the drainage to the IWS. See Section 4.7.3.

## 4.5.3.4 Comparison of SDN1 sampling Stations

Copper and zinc in SDN1 samples from the current station continue to show lower median values than samples from the previous station sampled until the end of 1996. This difference is attributable to removing the bias imparted by SR 518 runoff that was inextricably combined in samples from the previous location<sup>4</sup>. See Figure 11 and Figure 12. Therefore, the current station, "SDN1up" continues to provide results that are more representative of STIA runoff. Characterization of SDN1 runoff should therefore be limited to the data beginning in 1997 that excludes the high bias imparted by runoff from non-Port entities. Data for the two stations have been segregated and discussed separately in this report and the past three Annual Reports (POS 1999b, 1998a, 1997a.).

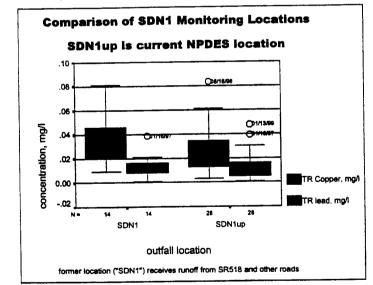


Figure 11

<sup>&</sup>lt;sup>4</sup> In October 1996, the Port changed the sampling location for SDN1 from manhole SDN1-27 (now SDN1-56) to manhole SDN1-22 (now SDN1-41), upgradient from 10.5 acres of public road runoff. Ecology approved this action. Past annual reports compare data from both locations.

Note that despite removing the bias from non-POS road runoff, SDN1 exhibits higher zinc concentrations than other outfalls. The Port has traced the source of this zinc to galvanized metal rooftops and is investigating several BMPs. See Section 4.7.3.

It is important to note that the SDN1 dataset for either location represents in-pipe water quality and not in a receiving environment with a biotic community. The sampling location, for reasons mentioned in Section 3.4, is several thousand linear feet above the final discharge to Miller Creek. Considerable chemical, physical and biological factors exist between the sampling points and this final discharge point. These include open, natural channels and the Lake Reba detention pond system common to the other three north-end outfalls (SDN2, SDN3, and SDN4) See the discussion of outfall monitoring locations in Section 3.3

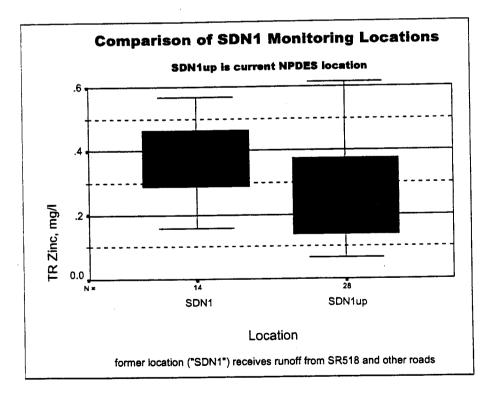


Figure 12

#### 4.6 Deicing Event Samples

The permit requires sampling and analysis for glycols during "deicing events". The Port conducts this sampling according to the Ecology-approved Procedure Manual (POS, 1999a.) The glycol data discussed below encompass mostly composite samples collected during periods of aircraft deicing, representing average values during a storm event discharge. Some of the data are from grab samples as required for outfalls SDS1 and SDN2.

#### 4.6.1 Background.

In 1995-1997, as recommended by the SWPPP, the Port implemented seven BMPs that rerouted drainage to the IWS from certain areas in four SDS subbasins: SDE4, SDS1, SDS3, and SDN2 (POS 1998c). Several limited areas within these subbasins were subject to aircraft servicing, including periodic ADAF (glycol) application. Two of these BMPs use multiple pump stations that have performed as intended over the past three years.

Two of these pump stations divert runoff from the entire SDN2 subbasin to the IWS. In the past year, there were only two storms (December 15, 1999 and May 10, 2000) that resulted in bypasses from these pump stations to the SDN2 outfall. Both bypasses were of very short duration compared to the length of the rainfall event. As intended in the station design, these bypasses to SDN2 represented only a fraction of the peak flows of the hydrograph.

The Port's Annual Glycol Reports (POS 2000a) detail ADAF (glycol) application at STIA. These reports summarize data reported by the airlines for the volumes of both ethylene and propylene glycol applied and number of aircraft treated each day. The Federal Aviation Administration (FAA) authorizes only ethylene and propylene glycols for aircraft deicing and anti-icing. Port tenants perform all glycol application at STIA (applied by airlines or their ground service providers). Importantly, to ensure public safety, aircraft pilots make the ultimate decision on whether to apply glycols or not.

#### 4.6.2 Results

Glycols have been present infrequently, usually limited to the rare, one to two day winter weather episodes, amounting to just a few days annually. In the past year, glycols were analyzed in a total of 33 samples from six outfalls. The majority of samples were collected at the regular sampling locations (SDE4, SDS3, and SDN4.) Total glycol concentrations ranged from non-detectable to a maximum of 801 mg/l in an SDS1 grab sample. Twenty four of these 33 results (73 percent) were below the detection limit of 2 mg/l. The total number of aircraft deiced in the dry period before sampling events ranged from 3 to 261, with a median of 31. Data appear in Figure 13 and are summarized in tabular form in Appendix C. These results continue to indicate that glycols are typically absent in STIA stormwater discharges.

In the past year, two limited periods of winter weather occurred: January 11-12, 2000 and January 18-19, 2000. During the first event, the minor snowfall of 2 to 3 inches did not require plowing because it melted rapidly with the ensuing rainfall. The second event had no snow but was associated with heavy frost formation on ground surfaces during clear night skies. In both events, deicing/anti-icing chemicals were applied to ground surfaces during brief periods of 24 hours or less.

These were the only periods in the winter of 1999-2000 when the Port applied chemicals to ground surfaces (primarily runways and taxiways.) Storms following both events were sampled at various outfalls. In addition to this NPDES sampling, both of these events were also monitored for the Dissolved Oxygen

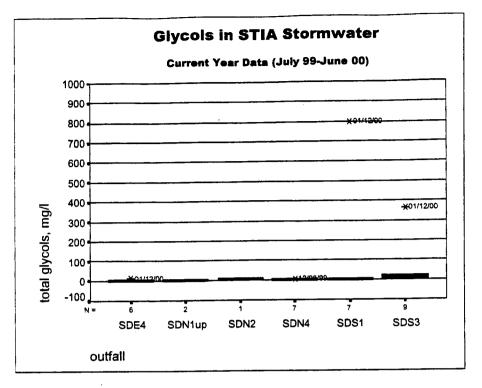
Study (POS, in press.) There were no discharges from outfall SDN2 during either of these events<sup>5</sup>.

Snowfall and chemical usage in the past year, including aircraft glycols, was less than in previous years. During the January 11-12 event, glycol results were 12 mg/l, 801 mg/l and 364 mg/l at outfalls SDE4, SDS1, and SDS3, respectively. The SDS1 result was from a grab sample while the others were flow-weighted composite samples.

Last year's annual report identified a clogged IWS drain inlet that may overflow to SDS3. Because of the proximity to certain gates of the C-Concourse, these overflows could be a potential source of glycols found sporadically in SDS3 samples. The Port corrected this problem this year and the IWS drain inlet now functions properly.

An elevated glycol result of 801 mg/l in the SDS1 sample of January 12, 2000 was associated with substantial aircraft deicing that took place nearby. Several small area drains near gates S3 and S4 at the South Satellite receive limited runoff from a small area between the nearby IWS flush gutters and the building. Only the forward sections of larger aircraft may overhang this area, resulting in the potential for ADAFs to enter the drains and SDS1 system. See Section 4.7.3. Though it is not certain that ADAFs were applied specifically to aircraft at the S3 and S4 gates, it is likely that the glycol result of 801 mg/l was attributable to at least one of the 15 aircraft deiced at the South Satellite on January 11-12, 2000. The Port has implemented an appropriate BMP by rerouting this drainage to the IWS (September 2000).

<sup>&</sup>lt;sup>5</sup> The entire drainage area of outfall SDN2 was re-routed to the IWS in 1997 as a result of two BMPs.



#### Figure 13 Glycol results for Current Year

The Port has completed all sampling requirements of Special Condition S2B4 for deicing events at outfalls SDS1 (003) and SDN2 (007). This permit condition was added when the current permit became effective on March 1, 1998. Previous annual reports have discussed how the data signify that the BMPs have been effective and the intent of this monitoring requirement is satisfied. As allowed for in Special Condition S2B4, the Port has requested Ecology's approval to cease this monitoring (POS, 1999e, POS, 2000b).

#### 4.7 Other Results

The following results were obtained from samples taken for purposes other than to satisfy permit condition S2B.

### 4.7.1 Field Quality Control Samples

The Port routinely collects duplicate and equipment blank samples during NPDES sampling events according to the Procedure Manual. Appendix E summarizes these results. The field equipment blanks taken in the past year indicate that sampling techniques and equipment do not contribute a high bias to sample results reported, notably for metals. These results support the efficacy of the Port's "clean" sampling methods that were developed for stormwater monitoring, in particular for the WET testing source tracing (POS, 1999d).

#### 4.7.2 WET samples

As required by permit condition S10, The Port completed two rounds of whole effluent toxicity (WET) testing at the four principal outfalls (SDE4, SDS3, SDN1 and SDN4) in the previous year (1998-99). The final report summarizing these WET testing results was submitted to Ecology in May 2000 (POS, 2000c).

WET testing bioassays used the two required aquatic test species: *Daphnia pulex* (a daphnid or waterflea), and *Pimephales promelas* (fathead minnow.) Results did not indicate toxic conditions in the stormwater discharges sampled at outfalls SDE4, SDS3, and SDN4. Furthermore these results met the performance standards for WET according to Ecology guidelines<sup>6</sup>. In contrast, results from outfall SDN1 exhibited toxicity, where most samples did not meet the performance standards. Final testing of SDN1 runoff in late 1999 showed that the toxicity was attributable to metals, most likely zinc, leaching from galvanized metal rooftops. The final WET testing report discusses the source tracing data for SDN1 samples collected in later 1999. The Port is currently investigating how to remedy this source of zinc.

<sup>&</sup>lt;sup>6</sup> Performance standards for acute WET tests: the average survival in 100% effluent must be at least 80%, and no single sample must have less than 65% survival (WAC 173-205)

#### 4.7.3 Source Tracing Studies

Because certain sampling results have indicated the possibility of contamination, the Port has conducted source tracing studies aimed at identifying and characterizing potential contaminant sources. Through past efforts, the Port has already discovered and eliminated several other sources of stormwater contamination in subbasins SDE4, SDN1, and SDS4 that are discussed in previous Annual Reports<sup>7</sup>.

As discussed in the WET testing section above, during the past year, the Port investigated and found the likely source of toxicity exhibited in SDN1 samples. These results from SDN1 are included in Appendix D, and were elaborated further in the final WET characterization report submitted to Ecology in May 2000. Other source tracing investigations are summarized below.

#### 4.7.3.1 SDE4 Source Tracing

The Port began studying fecal coliforms in SDE4 discharges in 1998 and continues to investigate causes of sporadic elevated results using several forensic techniques. The discussions below focus on results from storm samples, baseflow samples, microbial source tracing, measures of contamination, and potential source characterization. Sample results from the past year are summarized in Appendix F

#### 4.7.3.1.1 Stormflow samples

To date, the median of the 46 NPDES storm event grab samples from SDE4 is 280 per 100 ml, which is similar to median values at other STIA outfalls. See Appendix B. Consistent with past annual reports, source-tracing findings summarized below do not implicate sanitary sewage or other domestic

<sup>&</sup>lt;sup>7</sup> See POS 1997, 1998. Inappropriate connections to the stormdrains were found and eliminated in subbasins SDE4, SDN1, and SDS4.

wastewater as a cause of sporadic elevated numbers of fecal coliforms. Many other studies have shown that fecal coliforms in stormwater can be highly variable with frequent highly elevated numbers. The BURP (1984) study found a fecal coliform median of 980 per 100 ml in 326 *instream* stormwater samples. Fecal coliforms were often several thousand or more in the 200 stormwater samples taken at instream and outfall locations during the comprehensive Bellevue (1995) study, which concluded that the high concentrations were probably due to animal wastes. Again, the fecal coliform test is subject to interference from non-pathogenic bacteria. See the discussion below.

In the routine NPDES stormwater grab samples taken at SDE4 the Port has also analyzed certain chemical indicators of potential contamination. See Appendix E. Fecal coliforms were low (<50/100 ml) in two samples where fluoride concentrations suggested the presence of domestic water. Concentrations of ammonia and surfactants were also low in these samples. In addition, the ammonia to potassium ratios were also well below the 0.9 value generally indicative of wastewater<sup>8</sup>. These particular indicators have shown that the only sporadically high fecal coliforms found in these samples were not associated with the presence of wastewater. Consistent with conclusions in last year's annual report, these findings point toward the absence of sanitary sewage draining into the SDE4 system.

#### 4.7.3.1.2 Baseflow samples

Two rounds of baseflow sampling showed very low counts in SDE4 samples, indicating the general absence of baseflow contamination. Importantly, these findings demonstrate, as did last year's baseflow results, that there were no continuous discharges of contamination. Thus, these results eliminate the possibility of direct cross connections with the sanitary sewer. This conclusion is

<sup>&</sup>lt;sup>8</sup> See Lalor, Pitt, and Field, (1993)

further supported by the sporadic nature of the elevated results in storm samples which also indicate a direct cross connection with sanitary is unlikely.

No obvious inappropriate drainage connections were found after reviewing site plans and inspecting field conditions for a number of SDE4 manholes in August 1998. Sanitary sewer lines run parallel to SDE4 drain lines in several areas, but in most cases the sewer lines are below the storm drain lines. Thus, the potential for sanitary sewer leakage into SDE4 is limited. The field review identified a minor source of wash water from the rental car wash attributable to track-out by vehicles. This source was corrected by an asphalt berm added by POS maintenance as a BMP in early 1999, diverting the runoff to the IWS. Another inappropriate connection with rental car wash effluent was found and corrected in 1997. It is unlikely that these sources were associated with the elevated fecal coliform numbers.

#### 4.7.3.1.3 Microbial source tracing (MST)

The Port conducted seven rounds of microbial source tracing (MST) routines in the first 6 months of 2000 and plans to complete the remaining half of the MST study by the end of the year. This MST technique uses a special method of RNA fingerprinting developed by Professor Mansour Samadpour of the University of Washington's School of Environmental Health. Several other local and regional studies used this technique and attributed some of the fecal contamination in surface waters to multiple sources, including domestic animals and septage (Trial et al., 1993, King County 1995, Herrera, 1999). Ecology recognizes the MST method as "…an excellent method for determining some of the sources of fecal contamination in a watershed" (Sargeant, 1999.)

Using the MST technique, King County (1997) attributed up to 64% of the results in the lower Des Moines Creek basin to human septage. In upstream samples taken nearer the airport, human septage sources comprised 10% or less of the results, while avian and dog sources together represented up to 34%. However, the two rounds of MST analysis in this King County study provide limited statistical power and resulted in 36% to 59% unmatched results, which may also be due to the limited number of "fingerprints" available in the database at that time. Nonetheless, the study indicated that human sources were prevalent in lower basin areas suggesting that aging septic systems should be addressed.

Sampling and MST work at STIA also aims to characterize potential sources present in SDS3 runoff and in Des Moines Creek near South 200<sup>th</sup> Street. This instream location was also sampled during the limited MST work done for the Des Moines Creek Basin Plan (King County 1997). The Port's results to date show very low counts in SDS3 runoff, which are consistent with the 6-years' sampling summarized in Section 4.4.2. Four baseflow samples at SDS3 showed non-detectable fecal coliforms. Instream results have varied more, with less than 100 per 100 ml in four baseflow samples, but up to 2000 or more in two of six storm samples. The MST technique will characterize potential sources indicated for samples from these stations. The Port plans to issue a separate report at the conclusion of this study.

#### 4.7.3.1.4 Measures of contamination

Another part of this study examines the potential relationships among several indicators of bacterial contamination. Most fecal coliform bacteria are not pathogenic, but are used to indicate contamination from mammalian, avian, and human fecal waste products. Washington state water quality standards (WAC 173-201A) are based on fecal coliforms. Importantly, this metric does not distinguish actual sources, whether human, animal, or interference (false positives) from other non-pathogenic coliform bacteria such as Klebsiella sepcies. For example, recent studies in Colorado showed that Klebsiella significantly interfered with fecal coliform results, causing the potential for false

exceedances of permit criteria for a WWTP and implying higher than necessary disinfectant usage (Elmund et al., 1999).

For many years, various proponents, including EPA, have suggested that other metrics which correlate better with actual measures of disease are more appropriate (U.S. EPA, 1986). In 1986, the U.S. EPA stated that *E. coli* and enterococci-based standards would serve public health better than fecal coliforms and that states should change standards, effluent limits and test methods accordingly (U.S. EPA, 1986). The U.S. EPA issued an implementation guidance document this year (U.S. EPA, 2000). Ecology's triennial review of water quality standards, currently in progress, generally concurs with EPA, and as of May 2000 Ecology is considering *E. coli* and Enterococcus as alternative standards (WDOE, 1998, 2000).

The Port's study has not yet examined *E. coli* numbers, but has analyzed enterococcus in one round of sampling done in May, 2000, the results of which appear in Figure 14. Some of these samples correlated well, but notably, the samples from the routine SDE4 monitoring location had much lower enterococcus numbers than fecal coliforms.

#### 4.7.3.1.5 Local source characterization

Another aspect of the Port's MST study examines and characterizes specific potential sources of fecal contamination that could contribute to SDE4. The regional *E. coli* database already contains thousands of genetic "fingerprints" that are unique for humans and various species of mammals and birds. The Port's study has already collected 16 local fecal material samples (mostly from birds) that have been genetically typed and used to build the database with local populations of *E. coli* to increase the chance for matching with *E. coli* from STIA stormwater.

During source sampling, a large colony of pigeons was discovered roosting on the rooftops of the A-concourse. The guano deposits here indicate that this colony has inhabited the area for a considerable time. Because this colony is near aircraft gates, these birds are being trapped and removed to eliminate the safety hazard posed for aircraft operations. The guano deposits will be removed when the entire A-concourse is demolished and removed this fall in preparation for new concourse construction.

This study also collected samples of local municipal wastewater (MWW) generated by STIA and aircraft wastewater (AWW), known as "biffy" waste. *E. coli* from these samples have been genetically typed to build the database with local human sources. Samples of MWW and AWW taken to date have shown very high fecal coliform counts ranging from 39,000 to 48,000,000 per 100 ml (membrane filter method; APHA, 1995). Importantly, the presence of high counts in the AWW samples indicates that the toilet chemical added by the airlines has limited sanitizing effects. This aspect should be considered in spill response.

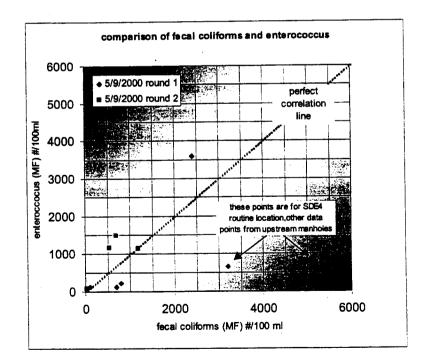


Figure 14 indicator correlation

#### 4.7.3.2 Observations for SDS1 discharges

Several SDS1 stormwater samples and observations in 1999 indicated limited, but not severe contamination from unusual sources. In addition to the two events mentioned in the last annual report, foam was again observed below the outfall during initial runoff from storms sampled on July 2 and September 23, 1999. Inconsistent analytical results and generally low levels of certain indicators signify sporadic, low-level contamination, most likely from washwater. Table 5 below summarizes stormwater sampling results from last year and the current year. Baseflow was generally low or absent and did not exhibit foam. Dry-weather discharges were not observed.

Fluoride concentrations near 0.1 mg/l indicated that the stormwater runoff contained less than about 10% domestic water<sup>9</sup> (potentially wash water). In addition, the ammonia to potassium ratios were also well below the 0.9 value generally indicative of wastewater<sup>10</sup>. But, the surfactants and phosphate results indicated detergents/soaps to a limited degree.

Neither the July or September event samples showed significant surfactants, though the July samples showed a higher percentage of polyphosphates that could be attributable to soaps and/or detergents<sup>11</sup>. The sporadic indications in these analytical results may be because the slug of contaminants had passed before the samples were collected, while the foam persisted. Foam was not observed during visits to the SDS1 outfall on 19 other occasions in the past year, including storms and dry weather (see Appendix G).

<sup>&</sup>lt;sup>9</sup>Local domestic water is treated with fluoride to a nominal target of 1 mg/i concentration (SPU, 1999) <sup>10</sup> See Lalor, Pitt, and Field, 1993

<sup>&</sup>lt;sup>11</sup> The difference between total dissolved phosphorus (TDP) and soluble reactive phosphorus (SRP) can be attributable to the presence of polyphosphates, a common and significant component of synthetic detergents (Sawyer and McCarty, 1978).

Nonetheless, certain visual observations and the analytical results, especially the March 12, 1999 sample, indicate the presence of detergents and/or soaps. The July 2 composite sample also showed the highest historical value for copper at SDS1 and the zinc concentration was near the 75<sup>th</sup> percentile. These results denote that the contaminants were only discharged sporadically in limited quantities during stormflows and were not due to dry-weather discharges of process water.

Dye and flow tracing performed on October 13, 1999 confirmed that a number of small area drains under the overhang of the South Satellite connect to the SDS1 system. Most of these inlets are sheltered from runoff or blow in. However, several inlets near gates S3 and S4 receive runoff from a limited ramp area that is between the nearby IWS flush gutter and these small area drains. Aircraft and/or GSE servicing near these gates is believed responsible for the 1999 foam observations and the elevated glycols found in the January 12, 2000 sample at SDS1 (801 mg/l, see Section 4.6.2). It is highly unlikely that runoff from South 188<sup>th</sup> Street was associated with these observations because no vehicle washing or other commercial operations exist in this additional drainage area of SDS1 downstream of Port property. The Port recently eliminated these sources of potential stormwater contamination in SDS1 by rerouting the drainage from the South Satellite area drains to the IWS.

#### 4.7.3.3 Observations in SDS3 discharge on November 6, 1999

The runoff at outfall SDS3 from the November 6, 1999 storm event produced considerable greenish foam below the outfall. Field investigations that day revealed that this anomaly was attributable to the hydromulch that had been applied the previous day to an area of about 20 acres of the recently completed taxiway construction project in the SDS3 subbasin. Because this hydromulch had not fully cured, the rainfall washed some of the conventional green dye and tackfier used in the mix into the SDS3 system. The results from this sample did not indicate unusual levels of BOD<sub>5</sub>, TSS or other constituents measured (see

Appendix B). Normally, the Port applies hydromulch as an erosion control BMP so that it has sufficient time to cure, achieving full effectiveness prior to forecasted rainfall. The Port has discontinued the use of the particular hydromulch product and now uses a faster curing mix.

#### 4.7.3.4 Inappropriate connection in SDN1

During the source tracing study conducted relative to the WET testing results, the Port also found an inappropriate connection to the stormdrain in the SDN1 subbasin. A slot drain serving several loading docks E9-E13 along the east side of the number 2 AFCO (previously "Avia") building connects to manhole SDN1-19 via a 6" PVC pipe. This drain was temporarily plugged immediately after finding it. A permanent plug was installed recently. Drainage from the surrounding area now flows to the adjacent slot drain, which was verified as already connected to the IWS.

#### 4.8 Outfall Inspections

Appendix G summarizes the visual observations made at outfalls during the past year. The number of instances exceeds the minimum of 3 wet season inspections required by the permit and reflected in the SWPPP (POS 1998c.) Most outfalls were visited more than 20 times in the past year during routine monitoring equipment deployment and maintenance. Indications of potential problems were limited to 3 occasions at outfalls SDS1 and SDS3 as discussed earlier in this report. The annual dry-weather inspection was conducted during September 1999. Visual observations recorded during these inspections did not indicate problems associated with baseflows or other dry-weather flow. Table 5 SDS1 Source Tracing Sample Results (mg/l)

Storm event	type	Чa	Fecals TPH-Dx		Turb	BOD5	NH <sub>3</sub>	Surf	glycols	TDP	SRP	il.	K.	NH3/	Cond	hard	SRP/	
		,	(MPN)		(NTU)									¥	(Jumhos)		40T	note
12-Mar-99	grab					123	0.012	3.92	48.7									1, 2
20-Jun-99 Grab 1	Grab 1	6.7	>1600	1.56				0.470	<4.0	0.145	0.075						52%	2,3
20-Jun-99 Grab 2	Grab 2							0.689	<4.0	0.175	0.085						58%	2,3
66/2/1	Comp	7.3	006	0.8	13	7.7	0.35	0.12	4	1.1	0.06	0.07	1.54	0.23	48	25	5%	2,4
7/2/99	grab 1	6.8				13.4	0.19	0.18	<4	1.3	0.062	0.09	1.57	0.12	68	30.1	2%	2,3
1/2/99	grab 2	6.9				9.7	0.26	0.10	<4	0.77	0.055	0.06	1.77	0.15	40	19.7	%/	2,3
9/23/99	grab 1		82		21	58.8	3.33	0.84		0.183	0.101	0.16	9.17	0.36	260		55%	2,3
9/23/99	grab 2		78		8.3	76.5	0.005	0.72		0.314	0.091	0.15	3.88	0.001	213		29%	2,3
	-					+0.00	icel eterminiter conditionte		et.									

Yellow shaded results indicate atypical stormwater constituents.

Notes for table:

- 1. quarterly deice grab sample
- 2. Foam observed below outfall
- 3. Source tracing sample
- 4. Routine annual NPDES flow-weighted composite sample

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#### 5 CONCLUSIONS

Storm sample results from the past year continue to support the conclusions reached in previous annual reports that STIA stormwater compares favorably to other comparable regional data, even with instream stormwater data. Constituents and concentrations of concern at STIA have been generally associated with specific activities or locations, and usually not routine runoff.

The Port has implemented various BMPs to address specific findings of the stormwater monitoring program. The data generally indicate that these BMPs have been effective. Still, the Port continues to investigate other issues to resolve problems indicated by the data.

Sampling locations for certain outfalls are in-pipe or are well above the final discharge point to receiving waters. Because these locations do not account for the influence of other factors prior to discharge, namely detention, it is not appropriate to compare the STIA data to water quality standards. Addressing the suggestions below may lead to more appropriate locations for assessing the relevance of STIA discharges with respect to water quality standards.

In addition to completing all required routine stormwater sampling, the Port accomplished the following pro-active measures in the past year.

- 1. Corrected an inappropriate drainage connection from a loading dock drain to the SDN1 storm drainage system.
- 2. Corrected a clogged IWS drain inlet that may overflow to the SDS3 storm drainage system.
- 3. Confirmed the likely source of toxicity exhibited in SDN1 WET tests.
- 4. Discovered the source of infrequent contamination in SDS1 samples. This drainage from several area drains under the South Satellite overhangs near gates S3 and S4 was re-routed to the IWS in September 2000.

- 5. Completed the first half of the SDE4 MST fecal coliform source tracing project.
- 6. Completed a second year of receiving water and outfall monitoring to assess dissolved oxygen during runway deicing events

The past year's monitoring efforts lead to these suggestions:

- 1. Complete the investigation of possible sources of fecal coliforms in SDE4 discharges,
- 2. Study how the Port could consolidate sampling locations. Instead of four locations for outfalls SDN1-SDN4, sample at a single point at the Lake Reba detention facility outlet that integrates discharges from all four outfalls. This location would be more representative of discharges where they enter the receiving waters. This location also accounts for the stormwater's contact with natural channels and detention prior to ultimate discharge to Miller Creek. These factors are not represented in the current sampling locations. Examine the benefits provided and risks engendered by sampling at this new location. Consider a similar approach for several Des Moines Creek outfalls (SDS5-SDS7).
- 3. Test several stormwater treatment technologies, including media filtration, to determine if they are a technically and cost effective BMP to consider for alleviating roof runoff water quality problems.

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#### APPENDICES

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# APPENDIX A STORM EVENT HYDROLOGIC AND HYDRAULIC DATA

#### Table 1

Monthly Summary of Daily Rainfall at STIA source: NWS rain gage (POS rain gage for July 99

				Sen		Nov-	Dec-	Jan-	Feb-	Mar-	Anr-	May-00	Jun-
day		<u>_Jul-</u> 0	Aug- 0	<u>Sep-</u> 0	Oct- 0	0	0.23	0.27	1.34	0	0	0.16	0
	2	0.3	0	0	0	0	0.34	0.27	0	0.37	0	0.02	0
	2	0.02	0.21	0	0	0.06	0.04	0.27	0	0.34	0	0.24	0
	4	0.02	0.06	- O	0	0.00	0.19	0.31	0	0.39	0	0.14	0
	5	0	0.07	0.02	0	0.29	0.15	0	0.06	0	0.02	0.05	0.01
	6	0	0.25	0.02	0.01	0.38	0.39	0.03	0	0	0.12	0	0.1
	7	o	0.07	0	0.21	0	0	0.21	0.34	0	0	0	0.05
	8	0	0.01	0	0.65	0.26	0.3	0.31	0.74	0.04	0	0.12	0.15
	9	0	0	0	0.01	0.84	0.15	0.2	0.01	0.05	0	0.74	0.1
	10	Ō	0	0	0	0.54	0.01	0.19	0	0.1	0	0.61	0.06
	11	0	0	0	0.09	1.06	0.04	0.05	0	0.03	0	0	0.55
	12	0	0	0	0.01	1.51	0.86	0.22	0	0	0	0	0.56
	13	0	0.02	0	0.02	0.3	0.12	0.1	0.01	0.46	0.35	0	0
	14	0	0	0	0	0.01	0.14	0.29	0.5	0.03	0.14		0
	15	0	0.17	0	0	0.08	1.4	0	0.01	0.04	0.13		0
	16	0.51	0	0	0	0.47	0.09	0.28	0	0.22	0	0	0
	17	0.19	0	0	0	0.14	0.33	0.01	0	0.05	0	0	0
	18	0	0	0.01	0	0	0	0	0	0.18	0	0.4	0.01
	19	0	0	0	0	0.28	0.08	0.08	0	0	0	0	0
	20	0	0	0	0	0.8	0	0.15	0	0	0	0	0
	21	0	0	0	0	0.09	0	0.19	0.19	0	0.1	0.09	0
	22	0	0	0	0	0.17	0	0.02	0.61	0.44	0.01	0	0
	23	0	0	0.07	0.03	0.02	0	0	0	0	0.1		0
	24	0	0	0.08	0	0.32	0	0	0	0	0		0.01
	25	0	0	0	0.14	1.03	0	0.1	0.27	0	0.34	And the second sec	0
	26	0	0	0	0	0.13	0	0	0.25	0	0		0
	27	0	0	0	0.3	0.3	· 0	0	0.17	0.06	0.07		0
	28	0	0	0	0.25	0	0	0	0.1	0.01	0.1		0
L	29	0	0.06		0.06	0.2	0	0	0.65	0.01	0		0
	30	0	0		_0.38		0	0.03	0	0	0		
	31	0	0		0.1	0	0	0.46	0	0	0		0
total		1.02	0.92		2.26	9.59	4.82	3.77	5.25	2.82			
NWS a	avg	0.79	1.1	1.79	3.48		5.92	5.7	4.21	3.75			
actual		1.02	1.94		4.38			22.56			32.11		36.85
avg cu	ım	0.79	1.89	3.68	7.16	13.21	19.13	24.83	29.04	32.79		36.96	

12-month 36.85

12-month NWS avg 38.4

Departure from avg -4%

total         perv         imperv         total         perv         imperv           8%         0.6%         2.4%         1.4%         0.6%         0.0%         0.0%           3%         0.1%         1.2%         0.6%         2.4%         1.4%         0%           28%         6.3%         2.8%         4.8%         0.6%         0.0%         0.0%           28%         6.3%         7.3%         1.2%         1.2%         1.2%         1.2%           18%         8.0%         6.3%         7.3%         1.2%         1.2%         1.2%           18%         8.0%         6.3%         7.3%         1.2%         1.2%         1.2%           19%         9.7%         2.2.7%         1.6%         3.1%         7%         5%         69%         69%         69%         69%         69%         69%         69%         69%         69%         1.5%         1.5%         5.1%         69%         69%         1.5%         1.5%         1.5%         1.5%         69%         69%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%         1.5%	Imperv         total         perv         imperv         total         perv           16%         8%         0.1%         1.2%         1.4%         perv           19%         2.8%         0.1%         1.2%         0.6%         2.4%         1.4%           19%         2.8%         0.0%         0.0%         0.0%         0.0%         0.0%           12%         18%         6.3%         2.8%         0.0%         0.0%         0.0%           12%         18%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           27%         19%         4.2%         1.8%         7.3%	ē •	total percent of each Creek		tot	total percent of SDS		ę	total percent of Airfield	<b>-</b>
16%         8%         0.6%         2.4%         1.4%           8%         3%         0.1%         1.2%         0.6%           9%         3%         0.1%         1.2%         0.6%           0%         0%         0.0%         0.0%         0.0%           12%         2.8%         6.3%         2.8%         0.0%           12%         1.2%         1.8%         0.0%         0.0%           12%         1.8%         0.0%         0.0%         0.0%           12%         2.2%         1.8%         0.0%         0.0%           27%         19%         9.7%         2.2.7%         15.5%         na           2.5%         19%         0.3%         2.2.7%         15.5%         na         6           2.5%         19%         0.3%         2.2.7%         15.5%         na         6           2.5%         1.9%         0.2%         1.4%         69%         6         6           2.5%         1.9%         0.2%         1.4%         6         6           0.3%         2.4%         1.6%         1.4%         6         6           1.9%         0.3%         0.2% <t< th=""><th>16%         8%         0.6%         2.4%         1.4%         1.4%           8%         3%         0.1%         1.2%         0.6%         1.2%         1.2%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%</th><th></th><th>Imperv</th><th>total</th><th>perv</th><th>imperv</th><th>total</th><th>Perv</th><th>hmperv</th><th>total</th></t<>	16%         8%         0.6%         2.4%         1.4%         1.4%           8%         3%         0.1%         1.2%         0.6%         1.2%         1.2%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%         0.6%         1.6%		Imperv	total	perv	imperv	total	Perv	hmperv	total
B%         3%         0.1%         1.2%         0.6%           19%         28%         6.3%         2.8%         4.8%         0.9%           0%         0.0%         0.0%         0.0%         0.0%         0.0%           12%         12%         1.2%         0.6%         0.0%         0.0%         0.0%           12%         12%         1.8%         7.3%         7.3%         7%           12%         1.8%         6.3%         7.3%         7%         7%           12%         1.8%         6.3%         7.3%         7%         7%           27%         1.8%         6.3%         7.3%         7%         7%           27%         1.8%         6.3%         7.3%         7%         7%           27%         1.8%         0.2%         1.4%         6.9%         6.3%           2.5%         19%         0.2%         1.4%         6.9%         6.9%           0.3%         2.2%         0.2%         1.4%         6.9%         6.9%           0.3%         2%         1.4%         6.9%         0.2%         1.4%           0.4%         0.3%         0.2%         1.4%         6.9%	8%     3%     0.1%     1.2%     0.6%       19%     28%     6.3%     1.2%     0.6%       19%     28%     6.3%     7.3%     12%       19%     28%     6.3%     7.3%     12%       12%     18%     7.3%     7%     3%       12%     18%     7.3%     7%     3%       12%     18%     7.3%     7%     3%       12%     18%     7.3%     7%     3%       12%     1.8%     7.3%     7%     3%       27%     19%     8.7%     22.7%     15.5%     18%       25%     1%     0.3%     2.2.7%     15.5%     18%       25%     1%     0.3%     2.2.7%     15.5%     18%       25%     1%     0.3%     2.2.7%     15.5%     7%       0.3%     2.3%     0.7%     3.5%     7%       0.9%     0.3%     5.1%     16%     7%       0.9%     0.3%     0.7%     3.5%		16%	8%	0.6%	2.4%	1.4%			
19%         28%         6.3%         2.8%         4.8%         0%           0%         0%         0.0%         0.0%         0.0%         0.0%         0%           44%         42%         8.0%         6.3%         2.8%         4.8%         0%           12%         18%         0.0%         0.0%         0.0%         0.0%         0%           27%         19%         4.2%         1.8%         7.3%         7.3%         72%           27%         19%         9.7%         2.2.7%         1.8%         3.1%         7%           27%         1.9%         0.3%         2.2.7%         15.5%         na         6           2.5%         1%         0.3%         2.2.7%         15.5%         na         6           2.5%         1%         0.3%         2.2.7%         1.4%         69%         1.4%           65%         8.0%         0.2%         1.4%         1.4%         69%         1.4%           1.9%         0.3%         5.4%         9.0%         0.3%         5.4%         1.4%           0.4%         0.3%         0.3%         0.3%         5.4%         1.4%           0.4%         0.	19%         28%         6.3%         2.8%         4.8%         0%         0%         0%         0%         0%         0%         0%         1         1         12%         18%         12%         12%         9%         1 <td< td=""><td></td><td>8%</td><td>3%</td><td>0.1%</td><td>1.2%</td><td>0.6%</td><td></td><td></td><td></td></td<>		8%	3%	0.1%	1.2%	0.6%			
0%         0%         0.0	0% 0% 0% 0.0% 0.0% 0.0% 0.0% 0% 0% 12% 12% 9% 1 12% 18% 6.3% 7.3% 12% 9% 1 27% 19% 9.7% 2.27% 15.5% na 6.1% 3% 2.5% 1% 0.3% 2.27% 15.5% na 6.1% 75% 69% 76% 69% 76% 61% 1.1% 0.3% 2.2% 1.1% 7% 69% 76% 69% 76% 69% 12% 1.2% 7% 0.3% 5.1% 0.3% 5.1% 0.2% 1.2% 12% 7% 0.3% 5.1% 0.5% 5.1% 5.1% 0.5\% 5.1% 5.1% 5.1% 5.1% 5.1% 5.1% 5.1% 5.1%		19%	28%	6.3%	2.8%	4.8%			
44%         42%         8.0%         6.3%         7.3%         12%           12%         18%         4.2%         1.8%         7.3%         7%           27%         19%         8.7%         22.7%         15.5%         na         6           27%         19%         22.7%         15.5%         na         6           27%         19%         22.7%         15.5%         na         6           2.5%         1%         0.3%         2.2%         1.1%         7%           0.3%         2.3%         0.2%         1.4%         69%           69%         8.0%         6.2%         1.4%         69%           1.9%         2%         1.6%         1.5%         0.4%           0.4%         6.0%         0.3%         5.1%         0.4%	44%       42%       8.0%       6.3%       7.3%       12%       9%       1         12%       18%       4.2%       1.8%       3.1%       7%       3%       1         27%       18%       4.2%       1.8%       3.1%       7%       3%       1         27%       18%       2.27%       1.1%       3%       1%       3%         2.5%       1%       0.3%       2.27%       1.1%       6.1%       3%         0.3%       2.3%       0.2%       1.4%       69%       76%         6%       69%       4.6%       6.1%       76%         6%       8%       8.0%       0.2%       1.4%       7%         1.9%       69%       1.6%       1.5%       7%       7%         0.4%       6.7%       0.3%       5.1%       1.6%       7%         0.9%       0.3%       0.7%       3.5%       Note: "atriliald" categood		%0	%0	0.0%	0.0%	0.0%	%0	%0	<b>%</b> 0
12%         18%         4.2%         1.8%         3.1%         7%           27%         19%         9.7%         22.7%         15.5%         na         6           2.5%         1%         0.3%         22.7%         15.5%         na         6           2.5%         1%         0.3%         2.2%         1.4%         69%           63%         64.5%         52.4%         48.0%         69%           619%         60%         60%         1.4%           619%         60%         0.2%         1.4%           0.4%         60%         0.2%         1.4%           0.4%         60%         0.2%         1.4%           0.4%         60%         0.3%         5.1%	12%         18%         4.2%         1.8%         3.1%         7%         3%           27%         19%         9.7%         22.7%         15.5%         16.1%         3%           25%         1%         0.3%         22.7%         15.5%         16.1%         3%           2.5%         1%         0.3%         2.2%         1.1%         6.1%         3%           2.5%         1%         0.3%         2.2%         1.1%         6.1%         5.1%         1.5%           0.3%         2.3%         0.2%         1.4%         69%         76%           62%         58%         4.5%         6.2.4%         48.0%         69%         76%           1.9%         2%         1.6%         1.6%         1.5%         7%         7%           0.4%         6.0%         0.3%         5.1%         0.7%         3.5%         Note: "atribuild" calegon           0.9%         4%         5.7%         0.7%         3.5%         Note: "atribuild" calegon		44%	42%	8.0%	6.3%	7.3%	12%	%6	10.9%
27%         19%         9.7%         22.7%         15.5%         na         6           2.5%         1%         0.3%         2.2.7%         15.5%         na         6           2.5%         1%         0.3%         2.2%         1.4%         69%           62%         58%         8.0%         52.4%         48.0%         69%           619%         52.4%         1.6%         5.1%         1.5%           0.4%         50%         0.3%         1.5%           0.4%         69%         0.3%         5.1%	27%     19%     9.7%     22.7%     15.5%     na     6.1%       2.5%     1%     0.3%     2.2%     1.1%     na     6.1%       2.5%     1%     0.3%     2.2%     1.1%     na     6.1%       0.3%     2%     0.2%     1.4%     69%     76%       62%     58%     4.5%     6.2%     1.4%     69%     76%       62%     58%     4.5%     6.2%     1.4%     69%     76%       0.4%     6%     0.0%     0.3%     5.1%     1.6%     1.6%       0.9%     4%     6.7%     0.7%     3.5%     Note: "atrileid" category		12%	18%	4.2%	1.8%	3.1%	7%	3%	4.7%
2.5%         1%         0.3%         2.2%         1.1%           0.3%         2%         0.2%         1.1%           62%         58%         0.2%         1.4%           63%         24.5%         52.4%         48.0%           69%         41.5%         52.4%         48.0%           619%         20%         1.6%         1.5%           1.9%         2%         1.6%         1.5%           0.4%         6%         0.3%         5.1%	2.5% 1% 0.3% 2.2% 1.1% 0.3% 2% 2.3% 0.2% 1.4% 62% 58% 4.5% 52.4% 48.0% 69% 76% 1.9% 2% 1.3% 1.6% 1.5% 1.9% 0.3% 5.1% 0.4% 6% 9.0% 0.3% 5.1% 0.9% 4% 5.7% 0.7% 3.5% Note: "atrileid" category Includes 17 acres of taxive		27%	19%	8.7%	22.7%	15.5%	BU		2.6%
0.3% 2% 2.3% 0.2% 1.4% 69% 62% 52.4% 48.0% 69% 1.4% 1.5% 52.4% 48.0% 1.5% 1.5% 0.2% 1.5% 0.4% 0.3% 5.1% 0.4% 0.3% 5.1%	0.3% 2% 2.3% 0.2% 1.4% 69% 76% 62% 64.5% 52.4% 48.0% 69% 76% 1.9% 8.0% 1.5% 1.5% 0.4% 6.7% 0.4% 6.7% 0.3% 5.1% 0.4% 6% 9.0% 0.3% 5.1% Note: "atrileid" category 0.9% 4% 5.7% 0.7% 3.5%		2.5%	*	0.3%	2.2%	1.1%			
62%         58%         44.5%         52.4%         48.0%         69%           6%         8%         8.0%         4.9%         8.6%         12%           1.9%         2%         1.3%         1.6%         1.5%         12%           0.4%         6%         9.0%         0.3%         5.1%	62%         58%         44.5%         52.4%         48.0%         69%         76%           6%         8%         1.3%         1.9%         69%         76%           19%         2%         1.3%         1.6%         1.5%         7%           0.4%         6%         9.0%         0.3%         5.1%         7%           0.9%         4%         5.1%         0.7%         3.5%		0.3%	2%	2.3%	0.2%	1.4%			
6% 8% 8.0% 4.9% 8.6% 12% 1.9% 2% 1.3% 1.6% 1.5% 0.4% 6% 9.0% 0.3% 5.1%	6% 8% 8.0% 4.9% 8.8% 12% 7% 1.9% 2% 1.3% 1.6% 1.5% 0.4% 6% 8.0.3% 5.1% 0.9% 4% 5.7% 0.7% 3.5% Note: "artifield" category Includes 17 acres of taxive		62%	58%	44.5%	52.4%	48.0%	%69		72%
1.9% 2% 1.3% 1.6% 0.4% 6% 9.0% 0.3%	1.9% 2% 1.3% 1.8% 1.5% 0.4% 6% 9.0% 0.3% 5.1% 0.9% 4% 5.7% 0.7% 3.5%		6%	8%	8.0%	4.9%	8.8%	12%		%6'6
0.4% 6% 9.0% 0.3%	0.4% 6% 8.0% 0.3% 5.1% 0.9% 4% 5.7% 0.7% 3.5%		1.9%	2%	1.3%	1.6%	1.5%			
	0.9% 4% 5.7% 0.7% 3.5%		0.4%	6%	8.0%	0.3%	5.1%			
0.9% 4% 5.7% 0.7%	Note: "airlield" category includes 17 acres of taxiway in		%6.0	4%	5.7%	0.7%	3.5%			
								includes	17 acres of t	axiway l

Total (acres)

Current (1998) Perv. Imperv. To (acres) (acres) (acr

	Perv.	Imperv.	Total
Urainage Basin	(acres)	(acias)	(acres/
Ξ.		0.01	
-	3.3	2.01	13.5
SDN-1 (POS below mon. pt.)	0.42	5.0	5.4
SDN-1 (offsite below mon. pt.)	34	12	46
SDN-2	0.0	0.0	0.0
S'NUS	43	27	70
SDN-4	23	1.7	90 S
Dee Moinee Creek SDS			Γ
	52	97	149
	2 4 4		1 1
-202		4 ( D 4	
SDS-2	12.2	1.0	13.2
SDS-3	238	224	462
SDS-4	E#	21	63
6- M	7.0	7.0	14.0
,	48.2	4.1	49.6
	30.7	3.2	33.9
Other SDS			
Taxi Yard	0.00	0.78	0.78
Encinearino Yard	0.28	1.20	1.48
8			
SWI			
Drimery dreinene	6.9	286	282
'07 North Snowmelt num str	6.4	0.24	8.6
	0.05	0 7 0	C
	0.0	1.0	
	5 L		
HTON :	0.0	0.00	0.00
North Satellite pump stn	10.0		0.01
ISON MOLI UOISJANIO DIG-SMI /6.	0.42		0.01
	g		Total
		viadum	
	acres	(acres)	(BUB)
,	103	62	165
	19%	14%	
% of total	19%	8%	-
Des Moines Creek SDS	432	364	
% of SDS	81%	85%	
% of total	78%	47%	φ
Other SDS (EY, TY)	0.3	2.0	2.3
% of SDS	0.1%	0.5%	
% of total	0.1%	0.3%	0.2%
total airfield (S3, S4, N3, N4, +17ac E4 )	346	297	
% of SDS	65%	69%	
% of total	62%	38%	48%
total SDS	535	428	
% of total	36%	55%	72%
IWS	20	350	370
% of total	**	45%	
Total drainage	555	778	1333

28% 1333

58

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4/00 3	
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10/4/00 3:25:00 PM										ant DO Study/instream									-		an a channa an an an an an ann ann ann an ann an a		and the second secon		
marv of Storms Sampled 7/1/99 - 6/30/00	Comment									runway deice event, concurrent DO Study/instream									WET & source trace at SDN1						
amnled 7	Event	Other Storm	NPDES Storm	NPDES Storm	NPDES Storm	Other Storm	NPDES Storm	Other Storm	NPDES Storm	NPDES Storm															
rms S	Load Factor		5.9	12.0	6.4	6.3	4.3	3.7	1.3	0.4	2.8	2.1	2.6	3.6	6.0	1.5	1.3	1.6	4.8	6.2	33.0	11.3	21	3.7	5.6
of Sto	Dryant, Days		3.1	3.6	2.0	2.9	3.0	1.3	0.4	0.4	1.0	1.1	0.3	1.7	2.5	0.9	1.1	1.0	1.8	5.2	12.5	4.3	21	1.7	2.4
			74	86	49	2	72	31	6	10	23	26	8	40	60	22	26	23	44	124	300 300	103	21	40	57
Sum	48hrant, In		0	0	0	0	0	0.05	0.07	0.31	0.05	1.15	0.32	0.36	0	0.62	0.15	0.08	0.05	0	0	0	21	.0500000	0.15
	24hrant, In		0	0	0	0	0	0	0.07	0.07	0.01	0	0.15	0	0	0.02	0	0.01	0	0	0	0	21	0	0.02
	Max Int, in/hr	0.04	0.08	0.14	0.13	0.09	0.06	0.12	0.15	0.04	0.12	0.08	0.32	0.09	0.1	0.07	0.05	0.07	0.11	0.05	0.11	0.11	21	0.09	0.10
	Dur, Pr	-	12	80	6	9	36	25	29	48	12	:	13	27	10	16	16	15	12	2	34	9	21	12	17
ខន	Depth, In.	0.1	0.34	0.43	0.47	0.28	0.28	1.18	1.76	0.37	0.38	0.34	1.26	0.49	0.24	0.32	0.33	0.6	0.68	0.07	0.7	0.3	21	0.37000	0.52
T POS EMIS	Storm Date	4/21/00	4/13/00	3/22/00	3/13/00	2/25/00	2/21/00	2/7/00	1/31/00	1/12/00	1/7/00	12/17/99	12/15/99	12/8/99	12/4/99	11/27/99	11/24/99	11/16/99	11/5/99	9/23/99	7/16/99	7/2/99	Count	Median	Average

load factor = maxint (in/hr)\*dryant(hrs) Event Type defined in Procedure Manual for Stormwater Monitoring

"dur" = rainfuall duration in hours "24hrant" and "48hrant" is the total rainfall in the 24 and 48 hours preceding the event respectively "dryant" is the duration of the antecedent dry period to the last measurable (0.01 in.) rainfall C:\ENV-apps\EMIS\POSDEV\EMISMain.mdb/rptSWStormsSampled Pag

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# 10/4/00 3:24:05 PM

POS	EMIS
IT	2

J EMIS	IIS	Estim	nated P	eak Ru	Estimated Peak Runoff Rates (gpm) for	tes (gr	om) for	Storm	<b>Events Monitored</b>	Monit	-	- 66/1//2	6/30/00		
Storm Date	Peak Rt, in./hr	002 SDE-4	003 SDS-1	004 SDS-2	005 SDS-3	006 SDN-1	007 SDN-2	008 SDN-3	009 SDS-4	010 SDS-7	011 SDN-4	012 EY	013 TY	014 SDS-6	015 SDS-5
4/21/00	0.04	1.810	160	17	4.700	180		630	530	150	230	21	13	239	190
4/13/00	0.08	3.630	310	140	9,400	360		1,270	1,060	290	450	42	25	478	380
3/22/00	0.14	6,350	550	250	16,500	630		2,220	1,860	510	062	73	44	837	670
3/13/00	0.13	5,900	510	230	15,400	590		2,060	1,730	470	730	68	41	117	620
2/25/00	0.09	4,080	350	160	10,600	410		1,430	1,200	330	510	47	29	538	430
2/21/00	0.06	2,720	230	110	7,100	270		950	800	220	340	31	19	359	290
2/7/00	0.12	5,440	470	210	14,200	540		1,900	1,590	440	680	63	38	718	570
1/31/00	0.15	6,810	590	270	17,700	680		2,380	1,990	550	850	78	48	897	720
1/12/00	0.04	1,810	160	71	4,700	180		630	530	150	230	21	13	239	190
1/7/00	0.12	5,440	470	210	14,200	540		1,900	1,590	440	680	63	38	718	570
12/17/99	0.08	3,630	310	140	9,400	360		1.270	1,060	290	450	42	25	478	380
12/15/99	0.32	14,520	1,250	570	37,800	1,450		5,070	4,250	1,160	1,810	167	102	1,914	1,530
12/8/99	0.09	4,080	350	160	10,600	410		1,430	1,200	330	510	47	29	538	430
12/4/99	0.1	4,540	390	180	11,800	450		1,590	1,330	360	560	52	32	598	480
11/27/99	0.07	3,180	270	120	8,300	320		1,110	930	250	400	37	22	419	330
11/24/99	0.05	2,270	200	89	5,900	230		290	660	180	280	26	16	299	240
11/16/99	0.07	3,180	270	120	8,300	320		1,110	930	250	400	37	22	419	330
11/5/99	0.11	4,990	430	200	13,000	500		1,740	1,460	400	620	57	35	658	520
9/23/99	0.05	2,270	200	89	5,900	230		290	660	180	280	26	16	299	240
7/16/99	0.11	4,990	430	200	13,000	200		1,740	1,460	400	620	57	35	658	520
7/2/99	0.11	4,990	430	200	13,000	500		1,740	1,460	400	620	22	35	658	520
A = total Basin Area, ac	iin Area, ac	149.0	10.7	13.2	462.0	13.5		70.0	63.4	14.0	30.2	1.5	0.8	49.6	33.9
Ai = Impervious area, ac	ous area, ac	0'.76	9.2	1.0	224.0	10.2		27.0	20.8	7.0	7.6	1.2	0.8	1.3	3.2
Ap = pervious area, ac	Is area, ac	52.0	1.5	12.2	238.0	3.3		43.0	42.6	7.0	22.6	0.3	0.0	48.2	30.7
Cr = (0.90(A)	Cr = (0.90(Ai)+0.25(Ap))/A	0.67	0.81	0:30	0.57	0.74		0.50	0.46	0.58	0.41	0.77	06.0	0.27	0.31

Rainfall data from Port of Seattle and/or National Weather Service Rain gage at Sea-Tac Airport Peak runoff rates based upon "rational method": Q=CIA. C:\ENV-apps\EMIS\POSDEVIEMISMain.mdb/rptSWStormsRunoffRates

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00AppendixA Peak Runoff

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Estimated Runoff Volumes (gal) for Storm Events Monitored 7/1/99 - 6/30/00

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Storm Date	Depth, in	002 SDF-4	003 SDS-1	SDS-2	SDS-3	SDN-1	SDN-2	SDN-3	SDS-4	SDS-7	SDN-4	EY	۲	SDS-6	SDS-5
001101			c	11 000	c	0		•	0	22,000	34,000	4,000	2,000	36,000	29,000
4/21/00	5.6	000 907	15 000	37,000	1 075 000	60,000		94,000	112.000	75,000	116,000	11,000	7,000	123,000	98,000
4/13/00	4: O	490,000 862,000	26,000	47 000	1.870.000	105,000		162,000	196,000	94,000	146,000	14,000	000'6	155,000	124,000
3/22/00	0.47	002,000 1 056 000	32,000	51,000	2.291.000	128,000		199,000	241,000	103,000	160,000	15,000	000'6	169,000	135,000
0012010	80.0	306,000	10.000	31 000	664.000	37.000		58,000	68,000	62,000	95,000	000'6	6,000	101,000	81,000
00/02/2	0.20	306,000	10,000	31 000	664.000	37,000		58,000	68,000	62,000	95,000	000'6	6,000	101,000	81,000
00/12/2	0.40 1 18	3 316 000	104.000	127.000	7.391,000	399,000		815,000	950,000	258,000	401,000	38,000	23,000	424,000	339,000
1/31/00	1 76	5,346,000	176,000		12,753,000	640,000		1,681,000	1,733,000	385,000	597,000	56,000	34,000	632,000	505,000
1/12/00	0.37	607,000	19.000		1,316,000	74,000		114,000	138,000	81,000	126,000	12,000	8,000	133,000	107,000
1/7/00	0.38	646.000	20,000	41,000	1,402,000	79,000		122,000	147,000	84,000	129,000	12,000	8,000	137,000	109,000
12/17/00	134	496.000	15.000	37,000	1,075,000	60,000		94,000	112,000	75,000	116,000	11,000	7,000	123,000	98,000
12/15/00	1 26	3.580.000	113.000	136,000	8,063,000	431,000		916,000	1,046,000	276,000	428,000	40,000	25,000	453,000	362,000
12/8/00	0.40	1 160 000	35,000	53.000	2.518,000	141,000		218,000	266,000	108,000	167,000	16,000	10,000	176,000	141,000
12/4/99	0.74	204.000	2,000	26,000	443,000	25,000		39,000	45,000	53,000	82,000	8,000	5,000	87,000	69,000
11/2010	0.37	428.000	13 000	35.000	928.000	52.000		81,000	000'96	70,000	109,000	11,000	7,000	115,000	92,000
66/17/11	0.32	461 000	14 000	36.000	1.000.000	56,000		87,000	104,000	73,000	112,000	11,000	7,000	119,000	95,000
11/24/33	90	1 550 000	46.000	65.000	3,169,000	188,000		256,000	375,000	132,000	204,000	19,000	12,000	216,000	172,000
11/10/33	0.68	1 778 000	53,000	73.000	3.684.000	215,000		315,000	442,000	149,000	231,000	22,000	13,000	245,000	195,000
00/200	0.0	0	0	0	0	0		0	0	0	0	0	0	0	0
7146/00	20	1 835 000	55.000	76.000	3.816.000	222,000		330,000	460,000	154,000	238,000	22,000	14,000	252,000	201,000
66/0/ //		365,000	11.000	33,000	791,000	44,000		69,000	82,000	66,000	102,000	10,000	6,000	108,000	86,000
A = Intal Rasin Area. ac	Area ac	149.0	10.7	13.2	462.0	13.5		70.07	63.4	14.0	30.2	1.5	0.8	49.6	33.9
Ai = immervinus area. ac	S AIPA AC	0.70	6.6	1.0	224.0	10.2		27.0	20.8	7.0	7.6	1.2	0.8	1.3	3.2
An = nervinus area. ac	area. ac	52.0	1.5	12.2	238.0	3.3		43.0	42.6	7.0	22.6	0.3	0.0	48.2	30.7
	50 25/An1VA	0.67	0.81	0.30	0.57	0.74		0.50	0.46	0.58	0.41	0.77	0.90	0.27	0.31
Max month dalify	intervention of the second	4 045 708	290 531	358.412 12.54		366.557		1,900,668	1,721,462	380,134	820,002	40,729	21,179	1,346,759	920,466
Cr Est runoff, gal/in	galin	2,723,386	235,004	107,252	7,089,492	271,660		951,692	797,466	218,577	339,133	31,361	19,061	358,955	286,594

Only certain outfalls sampled during a particular event

AR 051668

Rainfall data from National Weather Service and/or Port of Seattle rain gage at Sea-Tac Airport.

Runoff volumes based upon basin-specific estimation models.

SDN2 volumes gaged by flowmeter during pump station bypass sampling events.

Note: equations built into embedded functions above apply for rainfall from 0.1" to 2.0". C:\ENV-apps\EMIS\POSDEV\EMISMain.mdb/rptSWStormsRunoffVolum

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00AppendixA Runoff Volumes

# APPENDIX B TABULAR NPDES SAMPLE DATA SUMMARIES

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AR 051669

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All Urise surger Unda         POS ID         reported         deminde         event           outed         SDE 41 (11994         reported         deminde         event           SDE 41 (10706         SDE 41 (10706         100705         1006         1111.1004           SDE 41 (10706         SDE 41 (10706         1006         1005         1006           SDE 41 (10706         SDE 41 (10706         1006         1006         1006           SDE 41 (10706         1006         1006         1006         1006           SDE 41 (01706         SDE 41 (01707         1006         1007         1006           SDE 41 (01706         SDE 41 (01706         1006         1007         1007           SDE 41 (01706         SDE 41 (01706         1006         1007         1007           SDE 41 (01706         SDE 41 (01706         1007         1007         1007			14/1 24/14/1 24/14/1 24/14/1 24/14/1 24/14/1 24/14/14/1 24/14/14/1 24/14/14/14/14/14/14/14/14/14/14/14/14/14	48 mar 1 mar	Optimul: In         Obj           60 Mortic: In         09           10 Mortic: In         10 Mortic: In           222 (Nervice: In         10 Mortic: In           223 (Nervice: In         10 Mortic: In           224 (Nervice: In         10 Mortic: In           235 (Nervice: In         10 Mortic: In           236 (Nervice: In         10 Mortic: In           237 (Nervice: In         10 Mortic: In		Food         1         1         2         6         3         3         6         6         6         6         6         7         1         3         6         6         7         1         3         6         6         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	111 111 111 111 111 111 111 111	TPH-Dx         TPH-0         TPH-0           1         194         0         0           1         194         0         0         0           1         194         0         0         0         0           1         198         0         0         0         0         0           1         1         0	PH-L0         TPH-L0           TPH-L0		Image: commentance         Commentance           16         10           16         10           17         10           20         20	
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		SCIST OF 1906 CRAB	1006	1/13/06	-		8		•			ş	2	0.5	1.8			F	0.5	
		CTO 4 04 400 CD AD	400k	AHGOR			16		60.0			4	6.65	2.5	0.32	TPH-Dx me	Vaced			
			200	MULCUT	-						-	9	1.54	0		OC and TPH	1 OF DO	_		
		2000 M 200 M 2000			-		1												Fecals exceeded 30 hour holding time, results not	
					_		ţ		-	_		ş	5.86	0.5	0.35			8.	representative	
		SCOOL OF USER CHANG	im		-	1					T	4						- 	800 lecats make up for 7/3/96	
		SDS1 071796 GRAB	1861							1×		5	2	]	0.42		1	- -	130	_
		SOS1 080206 GRAB	1001	Sec.72m	-		2								250		[		009	
		SDS1 120496 GRAB	1997	12/4/06	-		2												360	
		SOS1 011607 GRAB	1907	1/16/07	-		8		-	2	NPLES	2	2							
		ISDS1 041307 ORAB	1907	4/13/97	-		12		90		NPDES	2	2	5	9		1	ः । 		
		18081 061707 GRAB	1001	6/16/97	-		28		0		NPDES	ş		62	8			Ē		
		SDS1102807 GRAB	1966	10/26/97	-		0.8		90.0			£	90 90 90	0.5	20					
		efet 111007 CDAB	toot	11/10/07	-		8		0.12			2			6.83		1		009	
				13/15/07	-	1	1					2	8.CB	0.5	1.3					
						-												;	FULLFILS QUARTERLY DEICING SAMPLE ROMT PLUS	
		Enel made 2048	1900	Service .	-	3.86	27		3		<b>PDES</b>	2	<b>8</b> 23		0.95			<b>8</b> [	I ANNUAL SWAPTLE HULM	
		ansi 121705	1990	12/17/08	~	11.				1	NPDES	<sup>2</sup>	_							
		STS1 01200 GRAB	1899	3/12/00	-	0.03			-	1	NPDES	£			_	_			quarterly deco grab sample in inst bu minutes	
Section Section         Test No.         Test No.         Test No.         Test No.         Control Section         Contro Section         Control Section         Contro		1 AAA OOO CAA 1	1900	6/20/00	-	121	L		3	44	NPDES	ž	8.8					2		
											-		5	0-H41						
GO11 (10768) (10758)         CO1         CO         COLORATION (10758)         COLORATION (10758) <thc< td=""><td>_</td><td>SDS1 070200 GRAB 1</td><td>2000</td><td>1/2/90</td><td>-</td><td>5</td><td>5</td><td></td><td></td><td></td><td></td><td>2</td><td>ş</td><td>replaced.</td><td>Ŀ</td><td>Ē</td><td></td><td></td><td></td><td></td></thc<>	_	SDS1 070200 GRAB 1	2000	1/2/90	-	5	5					2	ş	replaced.	Ŀ	Ē				
		C BROD DOME VOID	0006			0.3		Ξ	3	_	Source Tract	ž	6.96	and TPH 6	80		-		foam observed below outfall	+
			T		+		1							March 1.	Ĩ					
	_	SDS1 092399 gmb 1	2000		~		-								1	 				
									-			2							78 toem observed below outfail	_
		SUSI 002309 9mg 2	20002	i.	+	12					Т	2		┤	<u> </u> 				FOAM OBSERVED BELOW OUTFALL	_
		SUSI (002000 GHAB 2	200	ALC: N	-	L					-		7.3		50				84	
3005 (0016)         1006         100         001         100 <t< td=""><td></td><td>SDS2 051095</td><td>1995</td><td>SOVERS</td><td>-</td><td></td><td>¢.)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ľ</td><td></td><td></td><td>1</td><td>108/</td><td></td></t<>		SDS2 051095	1995	SOVERS	-		¢.)								ľ			1	108/	
SIGNE         (100         (110)		·SDS2 051195	1965	S/11/05	-	2	8		10			2	\$					 T	14MB	
Statistication         1000		SDS2 061005	1995	6/10/95	-	0.3	<b>e</b>			*	No.					MORT NO-MA	<b>Ked FOO and</b>		2400	
90031 (12000 (GAU)         6011         1(12000         1(12)         1 </td <td></td> <td>SOS2 00695</td> <td><b>9</b>8</td> <td>015/05</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>ľ</td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td>T BO (20) HL</td> <td>Nerch 1, 1996</td> <td></td> <td>23</td> <td></td>		SOS2 00695	<b>9</b> 8	015/05	-					ľ				12		T BO (20) HL	Nerch 1, 1996		23	
SSS1 (1)(4)(4)(4)(4)         (1)(2)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)		BDS2 112306 GRAB	1007	11/23/06	-	"						!			125					
BOSS (1)(1)(1)(1)         (1)(1)		SOS2 120406 GRAB	1961	12/4/96	-		2					1		10	0.125				8	
SIST UTITIE GRAM         FER         TAI         DOID         TAI         DOID         TAI         DOID         DOID         TAI         DOID		BDS2 011697 GRAB	196	1/16/01	-	Ļ	2 1				Sinks	1		•	0,125			Ļ	11 LAST FOR STIP AG	
SUSS 1011169         Column 1	~	SDS2 021197 GRAB	8	10/11/2							NEW	1		ſ			_		110	
SUSS (000)4         (600)         (10)         (20)         (21)	~	SDS2 111196 GRAB	1990	11/11/08	-								7.4%	-	Γ				DOD ANNUAL SAMPLE	
15/353 000004         1605         100         22         100         100         22         100 <t< td=""><td>2</td><td>SDS2 050799 GRAB</td><td>5<u>8</u></td><td>5600</td><td>=</td><td></td><td></td><td>8</td><td>ļ</td><td>ľ</td><td></td><td></td><td></td><td>╞</td><td>╞</td><td>L</td><td></td><td>L</td><td></td><td></td></t<>	2	SDS2 050799 GRAB	5 <u>8</u>	5600	=			8	ļ	ľ				╞	╞	L		L		
SUSS 106(46)         1966         (1)39         1         0.13         0         10140000         1.14         0.15           SUSS 106(46)         1966         (1)396         1         0.22         1         0.13         1         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.14         0.05         0.14         0.05         0.14         0.13         0.14         0.13         0.13         0.14         0.13         0.14         0.13         0.14         0.13         0.14         0.15         0.14         0.15         0.14         0.15         0.15         0.15         0.14         0.15         0.15         0.14         0.15         0.14         0.15         0.15         0.14         0.15         0.15         0.14         0.15         0.14         0.15         0.14         0.15         0.14         0.15         0.14         0.15         0.15         0.14         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15		15DS3 00004	1985	P-0-0-1	-		8				a M-DES	2		]:	<u>ال</u>					
SCG3 10194         10.02         40         400         40		SDS3 001404	1995	PLIZABA	-	0.15	•			=	SINFUES	£			5			2		
Statisties         test         (1/16)         (0/12)         (0/2)		SDS3 101394	1995	10/13/94	-	0.32	7				ONPOES	£		-	0 U			Γ		
SERS 01018         1005         1/1705         1         0         223         197055         100         712         0.05         0.05         0.05           SUSS 010195         1005         1/1705         1         0         2015         111         0.05 <td< td=""><td></td><td>SDS3 111994 amb</td><td>1995</td><td>11/19/94</td><td>-</td><td>0.42</td><td>24</td><td></td><td>8</td><td></td><td>2 NPDES</td><td>ź</td><td></td><td>9,5</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		SDS3 111994 amb	1995	11/19/94	-	0.42	24		8		2 NPDES	ź		9,5						
SESS 04136         1685         4/1005         1         0.20         9/1005         10.6         17.3         0.55         0.5		SDS3 010705	1995	1/1/05	-	0.21	22		-	2	2 NPDES	£	12	0.65				1		
SUSS (0000)         1000         2012         201         201         201         0.01         201         0.01         201         0.01 <th0.01< th="">         0.01         <th0.01< th=""> <th< td=""><td>,</td><td>POCINI CALLA</td><td>1005</td><td>410/95</td><td>-</td><td>0.29</td><td>9</td><td></td><td></td><td></td><td>6 NPDES</td><td>ž</td><td>2</td><td>8°</td><td></td><td></td><td></td><td></td><td></td><td></td></th<></th0.01<></th0.01<>	,	POCINI CALLA	1005	410/95	-	0.29	9				6 NPDES	ž	2	8°						
SUSS UTABLE         Teache         Ori         SE         O         PPDES         No         71         O         O         O         T         O         S         O         T         O         S         O         T         O         S         O         T         O         S         O         T         O         S         S         S <td>2</td> <td>DUCU CHILED</td> <td>1004</td> <td>50/02</td> <td>~</td> <td>0.42</td> <td>8</td> <td></td> <td></td> <td></td> <td>5 NPDES</td> <td>Per la</td> <td></td> <td></td> <td>=</td> <td></td> <td></td> <td></td> <td></td> <td>-</td>	2	DUCU CHILED	1004	50/02	~	0.42	8				5 NPDES	Per la			=					-
Stores virtues         Team         Construction         Construction <thconstructintereaded foroment<="" th=""> <thconstruction< th=""></thconstruction<></thconstructintereaded>	2		900	10405	-	04	8		Ĺ	-	NPDES	ź	11	0.65	0.5			_1	1.5	+
SCUSS 01186 (3AU3         100         170         0         171         0.5         0.3         0.1           SCUSS 01186 (3AU3         1000         111         0.0         114         0.5         0.3         0.1           SCUSS 01186 (3AU3         1000         111         0.0         114         0.5         0.3         0.1           SCUSS 01186 (3AU3         1000         111         0.0         111         0.0         114         0.5         0.1           SCUSS 01186 (3AU3         1001         111         0.0         111         0.0         111         0.0         111         0.1         0.1         111         0.1         0.1         0.1         0.0 <td>2</td> <td>CIUSS VILLORD</td> <td>1926</td> <td>10/15/05</td> <td>-</td> <td>50</td> <td>5</td> <td> </td> <td></td> <td></td> <td>NPDE8</td> <td>ž</td> <td>1.1</td> <td>2</td> <td>50</td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td>	2	CIUSS VILLORD	1926	10/15/05	-	50	5				NPDE8	ž	1.1	2	50			<u> </u>		
Substant         Table         Total		SUSS INTERNO	1004	1113/06	-	0.37	2				NPDES	ž	-	0.5	0.5			ſ	0.5	
Substantiation         Total	,			an cur		120			-	-	Steve	P.	1.5	0.5	-	the new party	and End an	Ę	13	+
Substitution         1         1         1         1         1         1         1           Substitution         1000         111100         1         0         200         100 </td <td></td> <td>SUSS UZZWA BURG</td> <td>0.00</td> <td>11000</td> <td>+</td> <td></td> <td>at</td> <td></td> <td></td> <td></td> <td>NPDES</td> <td>ž</td> <td>7.36</td> <td>1.2</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>+</td>		SUSS UZZWA BURG	0.00	11000	+		at				NPDES	ž	7.36	1.2	-					+
Sector formed event         Total         Total <td>-</td> <td>SUSS OF 1898 GHAR</td> <td></td> <td></td> <td>-</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>NPDES</td> <td>ž</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 tecats make up for 7/3/96 &gt; hold time</td> <td></td>	-	SUSS OF 1898 GHAR			-		2				NPDES	ž							1 tecats make up for 7/3/96 > hold time	
QCS3 (000000 GAUG)         1001         0.20         1011         0.20         1011         1000         1011         1000         1010 <td></td> <td>3023 0/1/10 (4048</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SINDES</td> <td>2</td> <td>1.35</td> <td>0.5</td> <td>0.3</td> <td></td> <td></td> <td>_</td> <td>0</td> <td></td>		3023 0/1/10 (4048			•						SINDES	2	1.35	0.5	0.3			_	0	
State         State         1         0.0         1.1         0.0         1.1         0.0         1.1         0.0         1.1         0.0         1.1         0.0         0.12         0.12         0.0         0.12         0.0         0.12 <th0.12< th=""> <th0.12< th="">         0.12</th0.12<></th0.12<>	2	SDS3 060296 GRAB	186	0407/8	-	5	5				<b>CINDLES</b>	2	2	0.5	0.125				(800	
SIGN (1210)         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000         11         1000 </td <td></td> <td>SDS3 090396 GRAB</td> <td>1001</td> <td></td> <td>-</td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td>APDES</td> <td>2</td> <td>10.9</td> <td>0.5</td> <td>0.125</td> <td></td> <td></td> <td></td> <td>130</td> <td></td>		SDS3 090396 GRAB	1001		-			+			APDES	2	10.9	0.5	0.125				130	
CODE         CODE <thcode< th="">         CODE         CODE         <thc< td=""><td></td><td>SDS3 102198 GRAB</td><td>186</td><td>04/17/D1</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>2 Stinde</td><td>Yes</td><td>1 20</td><td>0.5</td><td>0.125</td><td></td><td></td><td>L</td><td></td><td>-</td></thc<></thcode<>		SDS3 102198 GRAB	186	04/17/D1	-						2 Stinde	Yes	1 20	0.5	0.125			L		-
State         1907         11/1607         1         1/2         0.5         0.13         1         1           State         1997         Xeep         1         0.28         0.18         10         0.18         11         10         10         1		SDS3 112306 GRAB	8	000/22/11	-	1	-		-		A NDTES	2	6.87		0.54			_	8	
State coder         Call of the coder <th< td=""><td></td><td>SDS3 011697 GRAB</td><td>186</td><td>100UL</td><td>-</td><td></td><td>3 8</td><td></td><td>Î</td><td></td><td>2 NPDES</td><td>2</td><td>12</td><td>0.5</td><td>0.125</td><td></td><td></td><td>1</td><td>-</td><td> </td></th<>		SDS3 011697 GRAB	186	100UL	-		3 8		Î		2 NPDES	2	12	0.5	0.125			1	-	
Store         Store <th< td=""><td></td><td>SDS3 030507 GRAB</td><td>1961</td><td>No.</td><td>-</td><td></td><td></td><td></td><td>5</td><td></td><td>A NDREG</td><td>1</td><td>97</td><td>96</td><td>12</td><td></td><td></td><td></td><td>130</td><td></td></th<>		SDS3 030507 GRAB	1961	No.	-				5		A NDREG	1	97	96	12				130	
SU203 ID201 CEVLD         1004         0.24         105         100         101         100         1         0.17         1         0         1 <th1< th="">         1         <th1< th="">         &lt;</th1<></th1<>		SDS3 080307 GRAB	1991	60.007	-		     	+							175				13	
SUSS 017866 GAUE         1006         1/2         14         0.07         10         10         10         10         10         10         10         10         11         1         1         10         0.11         1         11 <td></td> <td>SDS3 102697 GRAB</td> <td>1996</td> <td>10/26/07</td> <td>-</td> <td>1</td> <td>801</td> <td></td> <td>5</td> <td>Ì</td> <td></td> <td>2 4</td> <td></td> <td>:</td> <td>126</td> <td></td> <td></td> <td>]</td> <td></td> <td></td>		SDS3 102697 GRAB	1996	10/26/07	-	1	801		5	Ì		2 4		:	126			]		
SDS3 000166 GAUB         1996         3/1/061         1         0.38         06         0.113         0.075         0.05         1           SDS3 000166 GAUB         1996         3/0061         0         121 PDEE         No         1/25         0.075         0.05         1 <td></td> <td>SUS3 012996 GRAB</td> <td>1996</td> <td>1/29/96</td> <td>-</td> <td>0.2</td> <td>=</td> <td>+</td> <td></td> <td></td> <td></td> <td>2 4</td> <td>8</td> <td></td> <td>0125</td> <td>010</td> <td>0.06</td> <td>15</td> <td></td> <td></td>		SUS3 012996 GRAB	1996	1/29/96	-	0.2	=	+				2 4	8		0125	010	0.06	15		
SUSS 0200006 GAUE 1906 3/0006 1 0.66 27 0 1/2/PDES 1/6 7.36 0.125 0.075 0.05 1 0.251 0.0006 0.125 0.075 0.051 1		SDS3 030106 GRAB	1996	3/1/06	-	8.0	8		5		DIAL NCO	2				-			backup monithy sample in case 3/1/98 semple didn't quality	
5053 000006 GAUB 1906						1	-6				DINDES	2			0.125		0.025	50.0	1 under new permit	
	2	SDS3 030996 GRAB	1000	SANS/S	-	8	5 8		+		4 NPDES	1	1 7.30		0.125		0.025	0.05		

Appendix8 of grabs

10/4/90

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page 2 of 11

						states a sharehadistics	attra		-	┝			concentration, mg/	ation, mgA		-+	+			
Alt Grab Sample Data		$\frac{1}{1}$		deoth.	-	macdint.	ht. 24hrant.	48hrmrl,							T DU D			comments		
outfall F	pos 10 map	reported ator	stormdate event			dur, hr inflr	<u>ا</u> ء	5	dryand, hr	ŀ				Ē	-l -	+=	1 1 1	17 NON-"STORM"		
SAS .	8	1996	5/0/06	2	0.12			•	360 NPDES	-	-1"	101	80.0	84 C	0.05	0.13	2002	DISIDERABLE POLLEN IN SAMPLE		
	1400 CRAB	1006	5/14/96	-	0.21			0.0	52 M		+	67			5000	5				
	AMA COAD	1001	R/10/06	-	9.28	9		•	282	RES CES		LC.					0	nondorm		
			7114100		0 13		8	0	264 ND		-	22	5. 	1				the desident 0.25 below		
	OWNER BASI			1	1		0.75	0	4N 281	DES No		7.75	0.125	0.15		1.1				
Ì	I GRAB			1		1	16	0	456 NP	DES		1.11		0.1		5				
	I BOB GRAB	86		-		i	4	0	140 NP	DES No		7.14		0.21		0.18	3			
SDS3 SDS3 08	SDS3 02496 GRAB	88	824786	-					2	i		6.90	0.56			0.51	ន	8		
	ICON CRAB		BASEDI					1	2	DER No		K.7		0.0		0.045	2			
	12796 GRAB		10/27/96		30	•				T				0.35		0.33	8			
	110A CRAR		11/11/06	-	86.0		0.15	8	5	T			<u>L</u> .			0.055	18.7	remetorm		
	0.00		12/10/08	~	0.14	4			9 9	NPDES No		1	!			200	24			
					1			0.02	33 NP	DES Vo		1.00		0.07		5.5		the set and set to build at the chains		
SDS3 SDS3 12	RITOR GRAB		04/11/71	+					163 NG	DFS Yes		7.62		0.47		0.45	E)			
SDS3 8DS3 12	2406 GRAB		12/24/98	-	2	8				ADDES No		7 85	L.	0.085		0.055	_1			
	SDS3 010000 GRAB	1000	1/9/00	-	0.27		6			T		R P	Ľ	0.26		0.24	23			
1	1100 and	1900	1/13/00	-	101		0.16	0	8	1			1			0.055	2			
		1001	BUVC/C	ļ	0.26		0.07	0 0.61	2							ŝ				
		-	DO/W/C	-	0.78	15		0	2 28	NPDE8 No		-					and a			
	SOBDE CHANE								N IL	DES		_	Call Hull Dire	] 0.35		200	3			
	31298 GRAB	86	RAVZUR	-	3			5	9	NDF8 No		7.26 On M	on March 1, 1996	0.075		8				
Į	12400 GRAB	1990	3/24/700	-	0.28	2						a.	I	0.075		800	23			
12	TO289 GRAB	2000	112/00		6.0			5	3	-		1	<u> </u>	0.075		90.0	ŧ			
	Theme (20 AD	2000	115/00	-	89.0				¥	-+	Ì	3 1				20	5			
			11/16/00		9.0	15	0.07 0.0	0.08	2			8		-			יי י			
					1 24	ļ	+ 0	0	8	NPDES No		7.17	1	, ,		3	.'.			
SDS 3 ada3 120	DADO CRAB	R	AA.4071	+			20	20	9	NPDES No		8		0.075		60	- L			
SDS 3 SDS3 12	SDS3 120899 GRAB	2000	12/8/90					5				7 36		0.075	5 0.025	80	-			
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l	SOWS OB1796	1906	8/16/05	-	13	2			1			1		0.26 110	TPH (IR) on March	-	đ	0 composite failed		
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		1001	1/16/07	-		2	-					2		1	anada i vo-u-		12	) mateuro for 9604 (3 unsuccessful attempts)	
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		1007	2/11/97					-		NPDES	£	3	1.1	0.25					
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		And a	AIADS			-			0	Star	Ŵ		-	J		- <b>h</b>			
Summer         Distribution         Distribution <thdistribution< th="">         Distribution</thdistribution<>		1001	18/04			28		0.0		NPDES	<del>2</del>	2	<b>9</b>	50 50					
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Sami ligned relation         Team         Total         10         Stand         No.         5.12         2         0.17         2.0           SMN 100006 GR06         1601         1         22         1         0         VCCS         No.         1         0         1         0         0         1         0         0         1         0         0         1         0<			BOICUT		2	-			0		ž	7.26	Ŧ	0.25					
Activities         Number of the state         1         0.23         12         0         120         NUME         10         110         0         100	Ŧ	100	ACT AGE		46	₽			0	Steve	ž	5.52	7	0.92					
SUN 101706         1601         1.021         12         0.21         12         22         0.21         12         22         0.21         22					-											-	-		
SUNI (11/16/         (10/1		1997	1/3/96		123	12			•	NPDES	2	9.1	2.8	-					
SOMI 011789         Feat         T/1/106         1         2/1					-												3	and secale mate in the 7,4406 grad that averaged holding time	
String index         Final         113/16         2         0         12         0         12         0         12         0         12         0         12         0         12         0         12         13		1007	7/17/06	-	1.27	10				NPOES	ž		-+					and the second se	
SUNITION         FINT         (110)         C <thc< th="">         C         C</thc<>			11/10/0		-	~				10 source tract	Yes	8.9	2.5	5					
SCM11 (price)         T/21         0.0         100			4/4407	1	5	12				A NPDES	ž	5.16	-	3.6				10 peried uprocess services	
Christing for (considered in the constraint)         Constraint (considered in the constraint)         Constraint (considered in the constraint)         Constraint (considered in the constraint)         Constraint (considered in the constraint)         Constraint (considered in the constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint)         Constraint)         Constraint (constraint)         Constraint)         Constraint)         Constraint (constraint)         Constraint)										I I I I I I I I I I I I I I I I I I I	£	723	0.5	0.5	_		5	00 paired up/down sample	
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SCN1         CONT         CONT <th< td=""><td></td><td></td><td>11/3/96</td><td>2</td><td></td><td>-</td><td></td><td></td><td></td><td>1</td><td></td><td>1.1</td><td>0.5</td><td>r-</td><td></td><td></td><td></td><td>23 peired up/down semple</td><td></td></th<>			11/3/96	2		-				1		1.1	0.5	r-				23 peired up/down semple	
SCN1 (driving grad)         1801         41.347         0.31         1031         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         1131         0.31         11311         1131         1131         113			1/16/97	-	12	ន				ON MULES	2			<u>.</u>	TPH-Dx replay	and FOC and		33	
SCH1 065291         Text         Total         Tot			413/07	-	0.31	5		-			8		3		TIPH BR) ON M	arch 1, 1990		17	
SDNI (1288)         E84         LOA         E84         LOA         E84         LOA         E84         LOA         LOA         LOA         LOA         E84         LOA         LOA <thl>         LOA         <thl< th=""> <thl< t<="" td=""><td></td><td></td><td>6/3/07</td><td>-</td><td>3.26</td><td>8</td><td></td><td></td><td></td><td>76 NPDES</td><td>ž</td><td></td><td>5</td><td>1.0</td><td></td><td></td><td></td><td></td><td></td></thl<></thl<></thl>			6/3/07	-	3.26	8				76 NPDES	ž		5	1.0					
SDN1 (17)(19)         GAUE         (16)         13         0         11000         1300         0.14         0.16         0.15			10/26/97	-		10.0		ð		26 NPDES	ž		6.0					11	
Schlitzige         No.         6.03         0.04         6.03         0.04		8	12/15/07	Ļ	L	8				B7 NPDES	ž	2	0.5	9.1	_				
SUM LOUINE GRAUE         THE         D         T23 NerGES         No         D         T23 NerGES         No         D	1	The second	21,000	-	WOO	8		ð	20	6 NPDES	Ŷ	6.33		0.48	_		ត្តា	Allow the second states and the second state	
SNI (00000 GFAB         1000         27         0         123         MPDES         Mod         6.04         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.47         0.04         0.47         0.47         0.47         0.47         0.47         0.19         0.19         0.19         0.17         0.19         0.17         0.19         0.17         0.19         0.17         0.19         0.17         0.19         0.17         0.19         0.19         0.17         0.19         0.19         0.19         0.17         0.19         0.19         0.19         0.19         0.19         0.11         0.19         0.11         0.19			-	.  													;	Dector increase and the state of the second rest of the second se	
SMI (00000 GAUG)         FORM         CO			action of	-	200	22				32 NPDES	ž	6,60		0.47			21	Linder new pering	
STMI OURSIG GAUB         Tester         4700         2         000         11<	- I			-	1		-	6		07 NPDES	£	8. S		0.34			z:	NON-SICHA	
STMI INCREME         Team         Constrained         Constrained <th< td=""><td>- 1</td><td></td><td></td><td>•</td><td>3 2</td><td></td><td></td><td></td><td></td><td>62 NPDES</td><td>£</td><td><b>6</b>.26</td><td></td><td>1.16</td><td></td><td></td><td></td><td>2 NON-SI UNIC</td><td></td></th<>	- 1			•	3 2					62 NPDES	£	<b>6</b> .26		1.16				2 NON-SI UNIC	
STMI (00036) GAU8         TORe         V/0         C <thc< th="">         C         <thc< th="">         C</thc<></thc<>	- 1		-	+		: 5				64 NPDES	ž	5.35		12				10	
SZN1 (6006) GAUS         1960         Current         C         0.11         0.025         0.04         0.025         0.03         0.035         0.04         0.025         0.035			04577			-	+			<b>BD NPDES</b>	2	4		0.6				BOINON-STORM	
Style is the GNA         1000	- 2		Deteoro C	•					Ĺ	25 NPDES	2	0.21		0.56				60 CONSIDERABLE POLLEN IN SAMPLE	
SUMI 01086 GAU8         1090         101         100			514796	-		•		"   -		MOTES	2	8.45		0.76				240	
SCN1 (01:446)         CAAA         1990         7/1,4460         2         0.13         16         0.04         0         7/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0         0         1/2         1/2         0 <td></td> <td></td> <td>6/10/96</td> <td>-</td> <td>0.28</td> <td>1</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>8 46</td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td>240 Inomatorm</td> <td></td>			6/10/96	-	0.28	1		-				8 46		10				240 Inomatorm	
SCM1 (0)(6)(6) (30,4)         1000         0 (10,4) <td></td> <td></td> <td>7114/36</td> <td>2</td> <td>0.13</td> <td></td> <td>80</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0 125</td> <td></td> <td>ļ</td> <td></td> <td>900 (thunderstorm, 0.25 Inflic</td> <td></td>			7114/36	2	0.13		80	5						0 125		ļ		900 (thunderstorm, 0.25 Inflic	
SCN11001686 GAUE         1990         #1886         2         0.19         20         0         430 (multiple         0	<u>۲</u>		6/16/96	-	0.31		0.25	-	ì				Γ	L				600 nonstorm	
SCN1 100366 GAVAB 1909 624/06 1 0.47 23 0.26 0 0 1 481NPDES No 6.03 1.27 1 16 0.03 1.22 50/1 10036 GAVAB 1909 1 0.44 3 0.22 0 0.07 381NPDES No 6.09 2.11 166 0.03 1.22 50/1 10036 GAVAB 1 0.04 3 0.10 0.072 1 00 0 1 32 50/1 1004 1 0.04 4 1 0.0	1		9/18/196	~	0.10		0.16	-	5	56 Martines	2			+-		1	1	99	
SQN1 (00006 GA4B         1900         0         0.22         0         0.01         36(POES         No         Eth         1         0.03         1 (BPDES         No         Eth         2 (11 of 0)         1         100         1         100         1         100         1         100         1         100         1         100			9/2 4/96	-	0.47		970			AB NPDES	2						İ	170	
	L		10/3/98	-	4		5.0			S COM S	2	8	-				•		
				•	Ş		U.44							ŀ				141	

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																		COMMente		
	DI SOA	odeu	stormdate		E	2	- 1	4	dryant, n	8	Cetter		-	0	5200	10	88			
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	1		12/10/96	2	9.4 7	•	80				2 3	1.2		6		3.14	2002	vonation .		
			12/17/94		5	-	810	5				1.86		1		4.93	*	actels not analyzed due to holiday leb closure		
			12/24/04			8	0.10			0.00	5	6.87		3.6		3.48	2			
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			2/3/04				120	5		ND/C	5	<u> </u>		1.0		1.02	-			
					82.0	2	8	5				Т	TPH-Dx replaced	0.6		0.97	-			
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				-	0.28	•	800	0		0 M LES	2	Т	on March 1, 1999			0.84	2			
				-	0.24	ø	0.07	0		6 NPDES	e v	J	•			920	ş			
							0.11	0		a NPDES	Ŷ	7.33				3	3			
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STREETING GOLD         100		9661		¥	0.35		_		Þ	NHES	2			Т	and the second se	- menu	ţ,			
					1.20				0	NPDES	£	2	_	Т	nenede i Ko					
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Size outsing (solut)         (solut) <td>Ì</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NPDES</td> <td>av av</td> <td>717</td> <td></td> <td>125</td> <td></td> <td></td> <td>ð</td> <td></td> <td></td> <td> </td>	Ì									NPDES	av av	717		125			ð			
SINT OCTOBING FOND         1000 <td></td> <td></td> <td>1</td> <td>8</td> <td>22</td> <td></td> <td>+</td> <td></td> <td>-</td> <td></td> <td>1</td> <td>8.83</td> <td></td> <td></td> <td></td> <td></td> <td>.4</td> <td>2 xtts NPDES/Sub Ag</td> <td></td> <td></td>			1	8	22		+		-		1	8.83					.4	2 xtts NPDES/Sub Ag		
SUNC (7) File         101         (1/100)         1         (1/100)         1         (1/100)         1         (1/100)				8	10.46									ł			Ŧ	() the fecale analyzed		
SPN9 (Morse Fride         1901         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2         0         1/2	1			8	1 0.27				-					2		_	306	3 ecres composite allouots in grab		
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Stand Interference         Fair         Vision         1 (1)         23         0 (1)			12	1	0.69	Į.		_	0	64 NPDES	ł	6.45		B		1				
SIZNA 01168/0         WW         WW <thw< th="">         WW         WW</thw<>					1 2 4				0	54 NPDES	£	7.45		8		1				
SENR 0H1647         FIRM									1	GUNDES	£	6.9		187						
SDN2 016467 (6NU8)         1000         0.23         0.03         0.04         0.04         0.05 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td>DA NETES</td> <td>ž</td> <td>108</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>0 no composite, equipment mailtundion</td> <td></td> <td> </td>							+			DA NETES	ž	108		1				0 no composite, equipment mailtundion		
Szrvz 110006 (2040)         1900         11/2500         2         11/8         30         0.0         0.00				6	1 0.2							f						North Cargo Pump Station bypeas		+
SUN2 11:2686 GNG         1696         11/2566         2         3.14         S2         0.31         0 IPDES         No         IPH OF reprised         No         IPH OF reprised         No         11         11         11         10	İ.			8	1 1.62		940	-			8	T						North Cargo Pump Station bypass		
Start and the intervention         1.14         3.1         0.1         0.005         0.015<			ŗ	8	2 3.45		0.32	82	13	8 NPDES	2	Ť	TPH-Dx replaces			l		Inum station broase. STORM< <design, maint<="" td=""><td></td><td></td></design,>		
SDN2 01/2880 GRAB         1669         1/2800         2         1/16         30         0.1         0.02         30         0.02         0.01						1							Ent and TPH OR				_	MOTIFIED ADMIN PROGRESS)		
12         SUNC 01/1000         2         1/2         3         0.12         0.15         0.15         0.15         0.15         0.05				8	2 1.16		0.1	0	0.02	33 NPDES	Ł		an March 1	2						
(2)         Starts         121666         (2)         (																		North Cargo Pump Station bypass		
SDN2 (02100 GNG         1600         1(1)         2(1)         0.00         1(1)         2(1)					1.26		0.32		25.0		7	Ŧ						30 min. North Cargo Pump Station bypass	-	
STAND 0000H         1065         0.00         21         0.00         21         0.00           STAND 0000H         1065         100         21         0.00         21         0.00           STAND 0000H         1065         100         21         0.00         21         0.00           STAND 0000H         1066         11         0.21         0.21         0.00         21         0.00           STAND 0000H         1066         1         0.22         0         0         21         0.00           STAND 0000F         1066         1         0.21         0.21         0         0         21         0.05           STAND 0000F         1066         1         1         0.23         0         0         21         0.05           STAND 0000F         1066         1         1         0         21         0         0         21         0.05           STAND 0000F         1066         1         1         1         1         1         0         25         0.05           STAND 0000F         1067         0         1         26         0         0         26         0.05           STAND 0000F		4		8	1 1.12		0.35			10 NPDES	¥				L				-	
Sint litter         100         11         100         11         23         00           Sint litter         100         <	I			J	10.69				_	93 NPDES	£			Ļ		ſ				_
Stand under         Total         D <thd< th="">         D         D</thd<>	ľ			2	8					114 NPDES	ž		2			1				
SUND 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 011196         100         2010 0111	1				1	1			0.05	S2 NPDES	ž			1			_			
SCNN 01016         1995         111         66         0         66			1		100					752 NPDES	£	7.8	0.55	0.6			_			-
SUND 02(665         1960         34095         1         0.11         241         0         131         141         1         151         1			1					-		66 NPDES	Yes			-					+	-
STAND 000000         1997         2000         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1										158 SUDAG	ž									
STINK 00066         1957         4405         1         1         2         0         210         846-4         10         1         40           STINK 00065         1995         44495         1         0.1         211         816-1         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BE STEAM</td><td>ž</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></t<>										BE STEAM	ž						_			
Status buckes         1985         440         0         241         100         241         250         05         440           Status buckes         1995         640         0         241         10         0         241         10			Ì							270 StipAg	£					<u> </u>				
SDN0 00009         1995         6405         1         0/1         600         187153         No         7         3.3         0.6         600           SDN0 01/106         1996         11001         10				B							ž		2.5	0.5				<del>6</del>		-
SEXNO 07/1006         1006         7.2013         100         172         21         0.6         4           SEXNO 07/1006         1006         1000	ļ			8			-				2	-	3.3	90			5	8		
SCM3 110165         1306         1.1006 <th1.1006< th="">         1.1006         <th1.1006< td=""><td></td><td></td><td></td><td>8</td><td></td><td></td><td> </td><td></td><td>2</td><td></td><td>4</td><td>1</td><td></td><td>0.5</td><td></td><td></td><td></td><td>4</td><td></td><td>-</td></th1.1006<></th1.1006<>				8					2		4	1		0.5				4		-
SON3 011406 GRAUE 1996 111406 1 037 20 0 011 20 SUMP 10 01 20 SUMP 10 01 20 SUMP 10 01 20 SUMP 10 01 20 SUMP 10 01 20 SUMP 10 01 11 0 01 20 SUMP 10 01 11 0 01 20 SUMP 10 01 01 11 0 01 10 00 0				ŝ	-				8				ž	20					-	-
SUN STATEME GRAVE 1806 2/2019 0 001 120 SUNA 10 0 14 05 14 05 1 14 05				8	1 0.3						2	1	3-	Ľ		<u>*.</u>		nonstorm, trautil flow to enable sempler		
				8	2 0.1						Ŷ			J			_	4 vie NDTE SiStin Ad		
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slormdate event 4/11/06 2 4/15/06 1	depth. In. dur, hr	mandint.	24hrani,   484	48hrant.	-	Bround	-			-			-
8 8		M		In. dryart. In	<u>я</u>	delce?	Fog	TPH (R)	TPH-Dx TP	TPH-D TPH-MO	(NJM)	commenta	-+
/15/96	10.01	1	╀╴	-	Stave	£						nonstorm	
				0.0	NPDES	ę.	7.61	2 0.125		TPH-DX (Spaced FOU and	8		
	0.00	-		0.56	18 StipAg	Ŷ		_				nonation	
90/04					Stip Ag	ł	1.12	0.5 0.125	<del>.</del>				
8/2/96	1.01 27	-		0	325 NPDES	£	E					ine survey in the second second	
1/23/96		-			72 NPDES		R						
12/4/96	0.02 7.5	-		0.16	44 NPOES	2		0.120 0.120	ī				
12/19/96 1	0.96			5		2			-				
1/16/07 1			-	-			3				1	FOG result not representative, laboratory arror, see latter of	
14407	0.30	20		0.24	42 NPDES	Ŷ	7.10 000	0.125			[	1 May 15, 1907	
1 19/06/5		36		90.0	14 NPDES	2		0.5 0.125	- 1-				
6/21/07	0.27 11.8		0.01	0.0	24 NPDES	£	5		T		1600		
10/28/07	0.47 10.6			80.0	26 NPDES	2	5		7				
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ey ADTC C		7 28	1.5 0.125			<del>ب</del> ه 	SOLAD OC DUPLICATE ALSO: GOOD DUPLICATION	
12/15/07			-		74 MD/CS	2	852		0.075	0.025 0	0.05 24(	0	
11/19/96			2	980	22 NPDES	2			0.08				
1/20/08	20.0	110	-		300 NPDES	¥	10.1		0.2	0.07 0.13	2		
I ARIALI/			-						0.075		50.0		
12/8/99 1		27 0.00	•	0.36			) 		0.13	0.025	0.11 240		_
6/20/96	0.21 3	0.03	-	•	48 NPOES	T						290 lister in 2 BOTTLES: FOG/[PH, and fecale	
96/06		2		•	76 NPDES	2		12 0.129			; 7_		
12/4/96	0.62	7.5		0.16	44 NPDES	£							
1/16/97		23		¢	154 NPDES	ž	1.34		T	TPH-Int replaced FOC and	7		_
345407	l_	2		0.24	42 NPDES	ž			1	TPN DEI on March 1, 1996	.[		
10/03	1	16		•	76 NPDES	ž	10.6						
10/28/97	0.47 10	10.6	_	0.0	26 NPDES	£		0.120 0.120 0.120	T				
12/15/87		33		0	07 NPDES	£	5			1	0.065		
3/1/96	96.0	8		0.07	6 INPDES	£	8.				1	backup monthly sample in case 3/1/08 sample didn't quelity	_
						-	7 80	0.129	0.075		305	1 under new permit	
	90.0		Ì		244 NDUES	2	98 2	0.125			0.05		
4/22/96		2:		-	<b>B7 NPDES</b>	2	9.9	0.125				0	
			-	•	200 NPDES	ž	8.26	0.125			İ	8	
		10 0.25	0	0	792 NPDES	2	7.60	0.129	5 0.135	0.055	- [	70 Bhunderstorm, 0.26 km/r	
			6	10	140 NPDES	£	7.13				8	FECALS EXCEED HOLDING I ME	+
04/157/8	1		6	20.0	36 NPDES	ž	1.04	0.24			90.0	8	+
antur,	100	0	-	0	72 NPDES	ž	1.0		0.075			2	
2017201					AS NPDES	2	9.26		0.075			17	
			-	3	24 MOTES	2	10		0.075		0.05	17	
	80.0		5	5	ADADES	1	7.15		90.0		0.055 10	1600 nonstorm	
Ì	2 0.14	B	5	2					0.00		0.056	6 nonatorm	
12/17/96			5	20.0	33 MTUES	2	1		0.075		0.05	fecals not analyzed due to holiday lab closure	
			•	5	153 M-UES				900		0.065	23	
		21 0.05	•	8	DA INTUES	2	2		0.045		ľ	1600	
	1.07	22 0.16	•	•	85 MPDE 8	2			800	9005	065		
1999 2/3/90			•	0.61	ZI WHEN	2		Decender X0-Hd1	0.075		0.05		
		23 0.07	•	8			Т	FOC and TPH CE	2	c	_		
			•	•	300 MPLAES		-	on March 1, 1995		1	016		
11/5/08 1	0.66	12 0.11	0	800	44 NPDES		2			•	0.055 200		
11/16/09 1	90	15 0.07	0.01	0.06		-	59.7		3				
1	0.40		•	0.36		8	2 <del>(</del> 2		c/n/n	620.0	5		
1 00/21/61	20		0	1.15	26 NPDES	9 <b>N</b>	7.67		0.075	620.0			
	5 F	20 0.15	0.01	0.07		_	6.67		0.075		8		
100/15/1			ľ	10		-	1.48		0.21	0.025 0.19	4		
2000	1.4		,† <b>e</b>	,	1/1 NPDES	2	1 30		0.52	0.17 0.3	_		
413000	8		1	2	. 1 4	-	81		0.075	0.025	0.05		
3/27/99	1 0.24	9 0.07	•	80.0	ZANATES	2					-		
9/13/94	1 0.15	•			116 NPDES	2	8.9	77	1+		 		1
10/13/94	1 0.32	-		0	460 NPDES	£	8	2.1	+			And the second second second and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
ł	L	114		0	Be NPDES	ž		0.5	-1			and when the same of a set of the second second second second second second second second second second second	:
64485	1 0.7	28		0	384 NPDES	ž	5.5	6.5	+			And a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	
l	1 0.41	8		0	NPDES	£	5.8		- <del>-</del>		1		
				10	NPDES	£	6.5	0.55	_		-		

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page 7 of 11

All Grab Sample Data	Data	Ì	-	-	depth.		maxim	24hrani.	48hrant,			ground		COG TPH						comments	_	
						-												-				
anthall a	DOS ID	reported sto	stormdata en	avent	_		a la		<u>۽</u> ا	dryani, hr		delce7		-	+	1	4					
À	mittee GRAB	1996	30/11/2	Ŧ	8	5					NUES N		12	33			1					
	APTOR CRAR	1906	4/22/96	-	2.83	•		-+	•	-14	T			Ļ	F	TPN-Dx replaced FOG and	aced FOG a	P	_			
	K7706 CRAR	1996	5/21/96	-	0.31	8			8	4		2		50	T	. NO CARD Hull	March 1, 1					
EVO	N7306 CRAB	1996	6/23/96	-	0.46	₽			•	1				50								
EVO	V70306 GRAB	1901	7/3/96	-	023	2						2 2	83	0.5				_	+			
	ICZ 196 CRAB	1997	10/21/98	╞	8	5		T	1	200		2	5.63	0.1	Π			_	+			
	EY 021107 GRAB	1001	211/07	+		= =	T		0.24	13	42 NPDES	2	5	0.5				_	+			
EY EYO	DODEDT CRAB	1001		-		1	ļ	1	0	192	-	2	2	9.0				-	+-			
	De0307 CRAB	1961		+			ſ		0.0	2	_	2	6.28	0.5				+	+			
E	110887 GRAB	9001	and a	<del>./</del> =	100	-			°	107		ž		8	+	1			t			
Ĕ	012000 CRAB		ACT COL	1-	950	Ŧ	ſ		•	10		£			+		and and	24	+			
2	EY 052506 GHAB		1/13/00	-	1.07	8	0.16	8	•	8	NPDES	2							-			
EV.	D11399 GRAME			<u>+</u> -		h			200	a	NDLES	2				1.34	0.026	8	+			
Fno.Yard iEY (	EY 013100 grado	2000	1/31/00	-	2	8	6.0				-	2					0.025	9.78	1			
T .	EY DE2009 GRAB	1999	8/20/98	-	6.21	*	8.9		1		DDE 8	1	101	9.6				    				
	·TY DODRA	1905	BURNA	Ŧ	8	ន	T		T	215		-	6.52	13		_		_	-			
<u>, 1</u>	TY 101994	1895	101904	+	02	8			ľ		VPDE8	2	6.9	5.7								
	TY 000405	1005	3/4/05	=	2	2	Ţ			3	NDUES	2	5.5	7.8				_	+			
	060495	1905	6/4/95	-	6	2				5	NDTER	1	6.8	2.3				_	1			
	TY 061795	1996	8/16/05	- 	ž	2			10.0	T	NPDES	2		1.0					-+			
	000505	1996	845/85		T	1				Γ	NDIES	2	67	<u>.</u>				_				
ľ	TY 101605-1	1906	10/15/95	-	80	2						-	00	9.6								
A.	022266 GRAB	1996	3422/96	-	20							1	90.9	3.7				1	j			
ľ	GH1696 CRAB	1906	4/15/96	-	-	-			5		NDIFE	2	1.31	~			1	_				
λ	D42206 GRAB	1996	4/22/96	-	2						NDPEN	2	8.15	1.4		EL XO-HAL	nuill on Liberation XO-Hida					
1	TY 070306 GRAB	1907	1/3/96		8						Steves	£	5.01	a, -		IPM UKI 0	TPM UKI ON MRITCH 1, 1996	╧				
¥.	TY 071706 grab	1997	1/17/96	=	0.27	5				205	StinAd	¥	8.43	1.0		_		ļ				
Ľ.	DB0286 GRAB	1997	842/98	-	5	Ì	Ţ		0.00		NPDES	ž	7.19	1.1	2.4	,		+	1			
Ľ.	100406	1001	10/4/19/6		9.10				ō	8	NPDES	ž	5.72	5				+		EDG mentit not representative. Jeboratory error, see lefter of		
ž	021197 GRAB	100/		Ţ																Manute 1967		
i		1001	10/01	-	0.30				0.24	2	NPDES	ž	8			. <u>.</u>						_
2	COOPOT CHAN	1001	100.5	Ì	0.26	2			0		INPOES	£				- <u>-</u> -		<u>+</u> -				
2	TY 060307 GHAM	1001	11/16/07	1	0.47	٣			•	ļ	NPDES	ş		s L	T			<u> </u>		MATCHING COMPOSITE NOT REPRESENTATIVE, NOT		
=																		٦		REPORTED		
۲.	7 012906 GRAB	1996	1/20/06	-	0.2	-					M-DES			Ļ		-	-					
												-1	6.83	0.5	12	1.41	0.00	8		EXTRA GRAB (HAS MAKEUP COMP FOR WOLM)		
È	TY 030996 GRAB	1006	3/8/96	-	8	2						2		L	12	5	0.025	8				-
4	TY DELODE GRAB	1998	6/10/96		02	Ĺ			190	İ	NPOFS	2				¥.		8	T		1	
F	1 020300 GRAB	1980	2/3/00	-	0.21					\$	NUDES	2				1.25	- 1	1.23				
Tan/Vard TY	Tenty 17 070209 GRAB	2000	1/2/00	-	•	1		ļ								5	- 1	5	•			
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B333         Boot         13         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0	BD33         Decord         74         6         73         0.53         0.06         1.06           PD4         71         31         0.53         0.06         1.06         1.06         1.06           PD4         71         31         0.53         0.64         0.65         0.76         0.76         0.76           PD4         PD4         7.3         1.2         0.65         0.71         0.66         0.76         0.76           PD4         PD4         7.3         0.73         0.73         0.73         0.76         0.76         0.76         0.76           PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4         PD4	101         1033         0001         1         1         1033         0001         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			_	-					1					l					
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0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03</td><td>(e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)       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    0.20         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03         0.03	(e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01)         (e01) <th< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td>ļ</td><td></td><td>1</td><td></td><td>   1</td><td></td><td>ļ</td><td>1</td><td></td><td>1</td><td></td><td></td><td></td></th<>						_	ļ		1		  1		ļ	1		1			
Period         7.1         7.5         0.55         0.54         0.04         7.0           750         7.3         0.5         0.30         0.01         0.13         0.01         0.13         0.01         0.13         0.01         0.13         0.01         0.13         0.01         0.13         0.01         0.13         0.01         0.01         0.13         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01 </td <td>Perind         7.1         3.5         0.55         0.64         0.44         7.00           Pain         7.3         0.5         0.33         0.04         0.03         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01</td> <td>Period         7.17         7.56         0.551         0.64         7.40           750         750         7.5         0.50         0.20         0.10         0.10         0.10         0.10         0.10         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.</td> <td></td> <td>-</td> <td></td> <td>Ì</td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td>X</td> <td>7.0</td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td> <td>ļ</td>	Perind         7.1         3.5         0.55         0.64         0.44         7.00           Pain         7.3         0.5         0.33         0.04         0.03         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	Period         7.17         7.56         0.551         0.64         7.40           750         750         7.5         0.50         0.20         0.10         0.10         0.10         0.10         0.10         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.		-		Ì						X	7.0					ļ			ļ
1000         7.5         1.2         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0	Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell         Tell <th< td=""><td>Nome         7.1         7.2         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>1</td><td></td><td> </td><td>Ì</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Nome         7.1         7.2         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0						1			1			Ì							
131         7.5         12         0.30         0.10         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.1	13.1         7.3         12         0.30         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.	17.1         7.5         1.2         0.50         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.11         0.10         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0					_					Ę	-		İ	i		ł			
media         73         03         031         001         011         01           260         12         0.0         0.01         0.01         0.01         0.01         0.01           261         12         0.0         0.01         0.01         0.01         0.01         0.01           261         12         0.01         0.01         0.01         0.01         0.01         0.01           261         12         20         0.01         0.01         0.01         0.01         0.01           27         28         14%         15%         15%         15%         15%         15%           27         26         13         270         16%         15%         15%         15%         15%           27         27         15%         15%         15%         15%         15%         15%         15%           27         27         27         27         27         27         27         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         15%         1	media         73         051         033         0101         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011 </td <td>media         73         03         010         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011<td></td><td></td><td>t</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>-</td><td>7.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></td>	media         73         03         010         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011 <td></td> <td></td> <td>t</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>7.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>			t		-	-				-	7.5							1	
State         12         0.0         0.10         0.11         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0	2010         2010         2010         2010         2010         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011         2011 <th< td=""><td>Stream         22         0.5         0.13         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01</td><td></td><td></td><td></td><td></td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td>:</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></th<>	Stream         22         0.5         0.13         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01					ļ						:					_			
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     21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21 <th2< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>% non-delected</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>:</td></th2<>					-					% non-delected				1					:
BDS         Count         21         19         16         2         21           (e)         (e)         (e)         2         1         0         0         1         000         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	BD54         Count         21         10         10         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <th2< th="">         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <th2< th="">         2         2         2</th2<></th2<>	Participant         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State         State			Ţ	Ţ							-	-		_		_			
B054         0001         21         10         0.01         20         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01<	8034         count         21         19         0         1         0         1         0         1         0         1         0         1         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	903         0001         21         903         0001         21         904         001         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905         905 <td></td> <td></td> <td>_</td> <td></td> <td>_</td> <td></td> <td>     </td> <td></td> <td></td> <td></td> <td>ł</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>			_		_		   				ł				-	-			
Image: New Procession         Tele         0.01         0.06         0.11         0.06         0.11         0.06         0.11         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.00         0.01         0.01         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	Matrix         7 (a)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b)         0 (b) <t< td=""><td>Matrix         78         0.38         0.11         0.06         0.1         000           150         7.8         3         0.50         0.11         0.06         0.1         0.00           151         7.51         7.8         0.50         0.11         0.06         0.1         0.00           1561         7.5         2.3         0.50         0.01         0.00         0.01         0.00           1561         7.1         0.5         0.50         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01</td><td></td><td></td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Source</td><td>5</td><td><u> </u></td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Matrix         78         0.38         0.11         0.06         0.1         000           150         7.8         3         0.50         0.11         0.06         0.1         0.00           151         7.51         7.8         0.50         0.11         0.06         0.1         0.00           1561         7.5         2.3         0.50         0.01         0.00         0.01         0.00           1561         7.1         0.5         0.50         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01			ļ							Source	5	<u> </u>	ļ						
Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr<	Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr         Wr<	WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT         WT<	-		-		+	   	  -		÷ .		7.6	-							
Pility         7,8         31         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	Prime         71         31         000         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001 <td>78h         7.8         31         0.00         0.01         0.05         0.1         400           15h         7.5         0.50         0.01         0.05         0.1         400           16h         7.1         0.5         0.50         0.00         0.01         0.01         400           15h         7.1         0.5         0.13         0.00         0.01         0.01         201           16h         7.1         0.5         0.13         0.00         0.01         0.01         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ì</td><td>1</td><td></td><td>1</td><td> </td><td>1</td><td>l</td><td></td><td></td><td></td><td>-</td><td></td></t<></td>	78h         7.8         31         0.00         0.01         0.05         0.1         400           15h         7.5         0.50         0.01         0.05         0.1         400           16h         7.1         0.5         0.50         0.00         0.01         0.01         400           15h         7.1         0.5         0.13         0.00         0.01         0.01         201           16h         7.1         0.5         0.13         0.00         0.01         0.01         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ì</td><td>1</td><td></td><td>1</td><td> </td><td>1</td><td>l</td><td></td><td></td><td></td><td>-</td><td></td></t<>								Ì	1		1		1	l				-	
TSIN         75         23         050         010         005         011         440           Tendetan         71         0.5         0.78         001         001         011         001           Tendetan         71         0.5         0.13         000         001         011         011           Tendetan         71         0.5         0.13         000         001         011         011           Tendetan         67         0.5         0.13         000         001         011         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Title         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si         T/Si <t< td=""><td>1260         75         23         0.60         0.10         0.05         0.10         0.05         0.10         0.05         0.10         0.05         0.10         0.01         0.05         0.10         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.0</td><td></td><td></td><td> </td><td></td><td> </td><td>-</td><td></td><td></td><td>-</td><td>5</td><td></td><td>•</td><td>Í</td><td>1</td><td>1</td><td>ł</td><td></td><td></td><td>1</td></t<>	1260         75         23         0.60         0.10         0.05         0.10         0.05         0.10         0.05         0.10         0.05         0.10         0.01         0.05         0.10         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.0						-			-	5		•	Í	1	1	ł			1
Media         7,1         05         0,80         000         01         01         00           25h         71         05         031         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01         01	Refer         7 x         0 2         0 30         0 01         0 0           250h         7 1         0 5         0 10         0 01         0 1         20           7 1         0 5         0 13         0 01         0 01         0 01         0 1         20           7 1         0 5         0 13         0 01         0 01         0 01         0 1         20           7 1         0 5         0 13         0 01         0 01         0 01         0 01         0 01         0 01           61         0 3         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1         0 1 <td< td=""><td>Total         T A         0.5         0.69         0.01         0.0           250h         71         0.5         0.00         0.01         0.1         00           251h         71         0.5         0.13         0.00         0.01         0.1         20           251h         71         0.5         0.13         0.01         0.01         0.1         20           251h         71         0.5         0.13         0.01         0.01         0.1         20           251h         61         0.3         0.1         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01</td><td>-</td><td></td><td>Ī</td><td>Ī</td><td></td><td>-</td><td></td><td></td><td></td><td>75th</td><td>15</td><td>23</td><td></td><td></td><td></td><td></td><td></td><td></td><td>:</td></td<>	Total         T A         0.5         0.69         0.01         0.0           250h         71         0.5         0.00         0.01         0.1         00           251h         71         0.5         0.13         0.00         0.01         0.1         20           251h         71         0.5         0.13         0.01         0.01         0.1         20           251h         71         0.5         0.13         0.01         0.01         0.1         20           251h         61         0.3         0.1         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	-		Ī	Ī		-				75th	15	23							:
Median         7.4         0.5         0.38         0.09         0.01         200           Min         67         0.5         0.13         0.00         0.01         0.1         20           Min         67         0.5         0.13         0.00         0.01         0.1         20           Min         67         0.5         0.13         0.00         0.01         0.1         20           Min         67         1         0.2         0.01         0.01         0.1         20           Min         67         571         552         0.00         0.02         0.0         44           Monolaneticid         1         1         1         1         1         2         44         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45         45	Median         7 A         05         018         019         011         200           25h         7 1         05         013         000         001         011         20           25h         7 1         05         013         000         001         011         20           25h         7 1         05         013         000         001         011         20           25h         1         02         00         001         001         011         10           25h         1         02         01         02         010         020         101         10           26h         27         20         000         000         000         101         10         10         10         10         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11	Temperature         TA         05         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         013         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         014         0			_		-					Ī			i	1			2		-
26N         71         05         013         006         001         201         20           min         67         0.3         0.3         0.00         0.00         0.1         1           min         6.7         0.0         0.0         0.0         0.0         0.1         1           Min         6.7         0.0         0.0         0.0         0.0         0.0         0.1           Min         6.7         6.8         6.8         5.8         2.7%         6.6%         0.4         0.1         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <t< td=""><td>Zish         71         05         013         000         001         29           min         67         05         013         000         001         01         29           min         67         05         013         000         001         01         1           constrained         67         03         013         000         001         01         1           constrained         63         73         59         57         595         705         1           X non-detected         59         59         505         505         505         1</td><td>26h         71         05         013         000         001         013         014         20           min         67         03         013         010         010         011         1         1           min         67         03         010         010         010         011         1         1           min         67         03         010         010         010         010         014         1         1           min         67         010         010         010         010         010         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td></td><td></td><td></td><td></td><td>-</td><td>   </td><td></td><td></td><td></td><td>median</td><td>7.4</td><td>0.51</td><td>į</td><td>ł</td><td></td><td></td><td></td><td>i.</td><td>1</td></t<>	Zish         71         05         013         000         001         29           min         67         05         013         000         001         01         29           min         67         05         013         000         001         01         1           constrained         67         03         013         000         001         01         1           constrained         63         73         59         57         595         705         1           X non-detected         59         59         505         505         505         1	26h         71         05         013         000         001         013         014         20           min         67         03         013         010         010         011         1         1           min         67         03         010         010         010         011         1         1           min         67         03         010         010         010         010         014         1         1           min         67         010         010         010         010         010         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1					-	 				median	7.4	0.51	į	ł				i.	1
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min         6.7         0.5         0.13         0.00         0.03         0.13           1         1         0.3         1         0.2         0.13         0.00         0.03         0.13           1         1         0.3         1         0.3         1         0.02         0.01         0.01           1         1         1         1         1         1         1         1         1         2         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	min         6.7         0.5         0.19         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.	Image         Image         0.3         0.13         0.00         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td></td> <td>5</td> <td>ì</td> <td>ļ</td> <td>i</td> <td>i</td> <td></td> <td></td> <td>_</td>										5		5	ì	ļ	i	i			_
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99h         73         66         11         10         10           73h         63         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td></td><td></td><td>1</td><td></td><td>-</td><td></td><td></td><td></td><td>t</td><td>1</td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			1		-				t	1		1	1								
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Predent         6.2         0.5         1.1         0.01           250         5.1         0.5         0.5         0.01         0.01           251         5.1         0.5         0.5         0.01         0.01         0.01           251         0.1         0.1         0.01         0.01         0.01         0.01         0.01         0.01           251         0.1         1.1         1.1         0.1         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01<								+					0				4			_	
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min         5,1         0.3         0.7         0.03           CV, K         F, H, R. 20%         CV         F, R. 20%         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV         CV <t< td=""><td></td><td></td><td></td><td> </td><td>Ļ</td><td></td><td></td><td></td><td></td><td>~</td><td>ŝ</td><td>5</td><td>0.5</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>İ</td></t<>					Ļ					~	ŝ	5	0.5	1							İ
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Final detected         11         0         0         0           5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         5 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-detected         7 non-d			ļ						Ţ		18	11	120%	-			ž			İ	
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TV         Count         19         19         3         6         6         6         6         6         6         6         6         6         6         6         6         6         7         7         7         7         7         7         7         7         7         1         1         1         1         3         3         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<									ţ												1
Count         7.9         1.9         1.3         6.9         0.00           CSh         7.4         8.7         1.3         5.3         0.01           CSh         7.4         8.7         1.3         5.3         0.01           CSh         7.4         8.7         1.3         5.3         0.01           CSh         7.4         8.7         1.2         2.0         0.01           CSh         8.1         1.4         1.2         2.0         0.03           CV         8.1         1.4         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         1.0         0.03           Min         5.5         0.5         1.2         0.03         0.03 <td></td> <td>ſ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td>1</td> <td>ī</td> <td>1</td> <td>+</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		ſ						ļ	1	ī	1	+	-				-				
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Point         7.4         8.7         7.1         5.3         0.01           766         6         39         1         3         0.01           766         6         39         1         3         0.01           766         6         39         1         2         0         001           766         6         1         1         2         0         001           786         6         1         1         1         0         0           7         7         0         0         1         1         0         0           7         0         0         0         1         1         0         0           7         0         0         0         1         1         0         0           6         6         0         0         1         1         0         0           6         7         0         0         0         0         0         0           6         7         0         0         0         0         0         0         0         0         0         0         0         0         0										,	į	6	-					,			
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0.5         0.1         1.2         0.00           0.5         0.5         0.5         0.00           0.5         0.5         1.2         0.00           0.5         0.5         1.2         0.00           0.5         0.5         0.5         0.00           0.5         0.5         0.5         0.00           1.12         0.00         0.00         0.00           0.5         0.5         0.6         0.7           1.12         0.00         0.00         0.00           1.12         0.00         0.00         0.00           1.12         0.00         0.00         0.00           1.12         0.00         0.00         0.00           1.13         0.00         0.00         0.00           1.13         0.00         0.00         0.00           1.13         0.00         0.00         0.00           1.13         0.00         0.00         0.00           1.13         0.00         0.00         0.00				ĺ							÷5	69	3.0		1	1				-	i
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SUSS 01006         1190         V/AN         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <t< td=""><td>ß</td><td>A huzen</td><td></td><td></td><td>1</td><td>L</td><td>Ī</td><td></td><td>ð</td><td>107 NPDI</td><td></td><td></td><td>8</td><td></td><td></td><td></td><td>; ·</td><td>•</td><td>200</td><td>A MY</td><td>0.045</td><td></td></t<>	ß	A huzen			1	L	Ī		ð	107 NPDI			8				; ·	•	200	A MY	0.045	
9953 00014         1 test         31/14         0.13         1 test         31/14         0.13         1 test         31/14         0.011         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001	ž	13 013096		DCM7/I	ľ	1			200	CLANK		_	5	31	13	N		•				
9553 (50096)         (196)         300         0.6         71         0         121         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031         0.031	ŝ	13 000196	1996	341/26	-1						T											
9253 000000         1000         271         0         2000         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0									_				5	3.2			2	31.	0.0	1		and when here parties
SUSS 061/68         (16)         4.2736         (64)         2.01         (23)         (1         2         (01)         2         (01)         2         (01)         2         (01)         2         (01)         2         (01)         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	ŝ	the manage	1996	Deves					5		T					12	-		0.001			
SUSS 061/06         116         State         0.21         100         0.25         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26         0.00         0.26			1000	MACEN				-	•			2			1	18	-		0.076		0110	A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPER
9003 (0010         1990         0.28         100         0.28         100         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.28         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.18         0.00         0.11         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01		and a		CUAND					10.0	125 MPD		2	8	-			-		0.060	İ.	0.060	
SUSS 001000         1100         0.13         0.2         0         752         000         0101         0.2         000         0111         0000         0111         0000         0111         0000         0111         0000         0111         0000         0111         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001         0001	ő	SJ 06149	R						•	Z00 NPD		ç	8	-		21					0 DEA	
9055 (617)         (16)         0.13         (0         0.22         (10)         1         2         0.03         0.11         0.03         0.11         0.03         0.11         0.03         0.11         0.03         0.11         0.03         0.11         0.11         0.11         0.03         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0	Ś	53 061090	1000	8053	ł				1	Ten MDA	Ī		2	5			j					<u> </u>
9333 (002566         (199)         0.47         23         0.26         0.60         0.01         0.64         1         2.24         160         6.1         1         2.2         0.63         0.01         0.03         0.01         0.03         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0		12 001790	8641	8/16/96			Ş				i											THE WAS CHILD
SUSS 00556         1600         0.47         23         0.28         0         0.480753         EMC         Tool         1         1         2         0.05         0.000           SUSS 100376         1100         0.47         20         0.27         0         0         1.680753         EMC         Tool         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1													1	406		5.14	1 22		2 0.069	į	1	
SIGS3 (06736)         1990         10270         0         2         0         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	_		1860	9/24/96			<u> </u>	8	•	100			B	<u></u>			-	_	0.055	Ì	1	
SUSS 101700         1100         121         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         011         0111         011         011         <	Τ	MCZNO CS		Annus .		1	Î		10.0	36 MPC	Ţ	y y	8	<b>2</b>  '	ţ	1		_	1000			
SDSS 102706         1007         100         0.01         0.10         0.10         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11         0.11		\$3 100398	-	Anni I	1	t			6	72 MPC	[	ş	8	8		5[	-					
SCG5 110-10         1100         1120         1120         1130         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131         1131		S3 102796	5641	10/2/01	1		ן ו			A NOT	Ι	5	2	310			5			1	ţ	
SISS 111360         1160         111         100         103         110000         110         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100	ļ	43.1104M	1898	BUC/14	1				5		Т	5	1	2			1	Ŧ		1	ł	CONCURRENT VVI. 1
Size strate         111         127146         111         121         011         021         121         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001		C111300		11/11/96			•		8		1	2			l	1					ţ	
SIGS 172398         Tem         Nome         0.27         21         0.67         7.11         0.71         10         11         0.023         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.003         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001 <td></td> <td></td> <td></td> <td>APACIE 1</td> <td></td> <td></td> <td>ľ</td> <td></td> <td>ò</td> <td>153 MPT</td> <td>1</td> <td>2</td> <td></td> <td></td> <td>Ì</td> <td>Į.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				APACIE 1			ľ		ò	153 MPT	1	2			Ì	Į.						
SUSS 011000         11990         111990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990         11990		MOT IN							•	LUN 19		U V	2					1				
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BUNI (12556         Item         1/12         2/12         0.01         0.021         0.011         0.021         0.015         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         0.011         <	- 1	SONI 11130			1	\$		10	•		Γ		-				12.3	-1	500	B		
BUNI (016)         1999         17/399         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0		SDN1 122596	<b>66</b>	12/24/96		5	2				T	-							0.024	8	0 182 concurrent WET sample	
EXPRISE         EXAMP         0.23         110         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		SON1 011499	<b>1</b>	111309	1	8	0.10	5			Τ				_				0.020	9000	0 233	
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EXAMINATION         2000         (21/19)         0.4         (15)         20         (21/19)         0.4         (16)         0.6         (15)         20         (21/19)         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		erati thefee	9000	12/4/99			5	0	0		-	į		1		;	Ì				0 122	1
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P         Description         1955         Description         1955         Description         195         Description         195         Description         195         Description         195         Description         195         Description         195         Description         195         Description         195         Description         195         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Description         Descrin         Description         Descri		SUM WALK		4/13/00			90.0	•	•	74 NPT	-		_				-	Ì				
SUNU (1994)         1955         101         0         460 (HPCS)         100         0.5         0.1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td></td> <td></td> <td>×.</td> <td>A MARK</td> <td>1</td> <td></td> <td>ł</td> <td>┢</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>3.2</td> <td></td> <td>1</td> <td>-</td> <td></td> <td>200</td> <td></td> <td></td> <td>-</td>			×.	A MARK	1		ł	┢				2		3.2		1	-		200			-
SUM2 (1):3M         TYSS         UNIX         Dot         Z         54         71         9         0.013         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003		SON's GROUP		ANIT VAL			┢		•		5	5		0.5			Í			S		
SDAZ 11134         145         14         0.25         2.5         5         0.05         52(HPDES         16         16         2         2         5         0.05         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01		SONZ 101.2MG					╞	t			5	8		2	4	_	-	<u> </u>	610.0	M00 D .		
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SEMM (\$100)         2000         41700         0.31         1.3         0.41         0.5         1.4         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5			
State of (1300         2000         2014         0         111         111         211           FY 181381         1966         001394         0.23         14         0         300         201         20           FY 181381         1966         001394         0.23         161         0         300         205         10         25           FY 181381         1966         073946         0.23         12         10         30         100         25           FY 181381         1966         777896         0.21         12         0         300         10         30         30           FY 181381         1980         777896         0.21         12         0         300         10         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30			
FF (#64.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)         (#66.64)			
(166)         (101)(306)         (2.2)         (14)         (10)         (16)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)         (12)			
1986         3068         2.6         14         0         80005         1.3         1.4           1980         178895         6.1         38         1         0         34         33         1           1980         178895         6.1         38         1         0         9055         10         35           1980         178895         6.3         13         0         9055         100         35           1980         27080         2.13         12         0         9055         100         35           1980         27080         0.31         12         0         9055         100         36           1981         27080         0.31         12         0         9055         100         36           1981         172890         0.31         12         0         0         905         10         10           1981         172890         0.31         12         0         0         10         10         10           1981         1051         0.3         12         0         0         10         10         10         10         10         10         10			
(166)         (0,1)         (3)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)			
1980         7/2005         0.41         3         0         60765         10         60         26           1980         101991         0.35         12         0         107053         100         24           1980         472896         2.35         12         0         107053         100         24           1980         472896         2.35         12         0         197053         100         24           1980         47296         0.31         30         0         197053         100         24           1981         77296         0.31         12         0         197053         100         10         24           1981         77296         0.31         10         0         24         25         10         10         10           1981         717195         0.41         0         0         24         25         10         11         24           1981         1019175         101         10         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101			
1980         0110990         0.51         12         0         67025         0         67025         0         12           1980         211786         1.33         12         0         0         67025         0         24           1980         217786         1.33         12         0         0         67025         0         24           1980         227090         0.31         20         0         67053         0         23           1980         227090         0.31         12         0         67053         0         23           1980         17690         0.31         12         0         67053         0         23           1980         100         12         12         0         64053         0         12         13           1980         27090         0.31         13         0         0         10         12         13           1980         27090         0.31         13         0         0         12         13         12           1980         27090         0.31         13         0         0         13         12         13         13 <td< td=""><td></td><td></td><td></td></td<>			
1998         1/1/987         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/			
(1606         273/165         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         (1.2)         <			
1986         2/12/18         2/13         0         0         0         34/0         0         2           1989         6/23/18         0.3         10         0         0         0         0         2           1989         6/23/18         0.3         10         0         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			
1986         527,106         0.31         30         0.02         39,94         700         10           1991         77,996         0.23         12         0         39,94         700         16         43           1991         77,996         0.23         12         0         39,94         700         16         43           1991         71,799         0.36         4.1         0         0         30,94         700         16           1991         717,190         0.36         4.2         0.34         42,94753         100         17           1991         1191         0.36         23         42,94753         100         17         10         17           1991         1191         0.36         23         0.31         17,94753         100         17           1991         1191         0.36         23         0.01         0.01         17,94753         100         17           1991         17,94753         10.01         73         100         17         10         11         11         11         11         11         11         11         11         11         11         11         11			
166         6.2396         0.64         10         0         9694         10         11         4.3           1891         12101         0.84         11         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td></td><td></td><td></td></td<>			
1991         7.2006         0.23         17         0         0         0000053         100         12         4.3           1997         211101         0.40         14         0         20000053         100         12         4.3           1997         211101         0.40         13         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			
1987         1077/198         6.44         (1)         0         000000000000000000000000000000000000			
1980         21(187)         0.48         11         0         200 (MPCS)         10         11           1991         21(187)         0.48         24         0         125 (MPCS)         100         12           1991         21(187)         0.48         24         0         125 (MPCS)         EMC         10         12           1991         17(1891         0.16         4.4         0.91         125 (MPCS)         EMC         10         12           1991         17(1891         0.16         0.11         12 (MPCS)         EMC         10         12           1991         17(182)         1.1         22         0.16         0.01         10 (MPCS)         EMC         10         12           1991         17(182)         1.1         22         0.16         0.01         10 (MPCS)         EMC         10         11           1991         173         23         0.15         0.01         0.01         10 (MPCS)         EMC         10         11           1991         1701         17         23         0.15         0.01         0.01         10         12         12         12         12         12         12			
1680         35607         0.28         20         0.24         42569705         6400         72           1780         17809         0.3         24         0.35697055         6400         72           1780         17809         0.3         24         0.01         728697055         6400         72           1780         116         4.3         0.01         728697055         6400         70         70           1780         116         0.3         117         72796         0.3         110         71           1890         117396         1.02         21         0.03         0.00         10         10         71           1890         117396         1.12         21         0.15         0.01         0.01         10         71           1890         171396         1.12         21         0.15         0.01         0.01         10         71         71           1890         171396         1.12         21         0.15         0.01         0.01         10         71         71           1890         1800         10         1.1         22         1.1         1.1         71         71 <td></td> <td></td> <td></td>			
(189)         0(189)         0.36         24         0.1         (55)         24         0         (55)         12         12           1999         (17890)         0.10         1.4         0.0         0.1         (55)         10         10         10           1999         (17890)         0.10         1.4         0         0.1         (55)         10         10         10         10         10           1999         (1709)         0.2         11         0         0         0.1         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1			
1990         11/000         6/01         72 (MPUCS)         EMC         00         11/0           1990         12/000         0.01         12/000         0.01         12/000         10         12/000           1990         11/000         0.01         0         0         01/0000         EMC         MO         12/0           1990         11/000         12/0         0         0         0         10/0000         EMC         MO         12/0           1990         11/000         12/0         0.01         0         0         0         10/0000         EMC         MO         10         12/0           1990         1/10         20         0.01         0.00         0.00         0.00         10/0000         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0         10/0			
11860         112896         0.2         14         0         100         100         101         102         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112         112 </td <td></td> <td></td> <td></td>			
1995         52.446         0.36         11         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th=""> <th10< th="">         0         <!--</td--><td></td><td></td><td></td></th10<></th0<>			
1999         11/1399         1/1         22         0.16         0         0         66/97053         EMC         Mo         78           1999         0/1/339         1/12         24         0.35         0.03         0.097053         EMC         Mo         78           2000         1/1/339         1/12         24         0.35         0.03         0.097053         EMC         Mo         78         71           2001         2015         0.01         0.01         0.01         0.01         0.01         0.01         71         73           1995         1014643         5.01         0.01         0.01         0.01         0.01         71         74         74           1995         1014643         5.01         0.01         0.01         0.01         71         74         74           1995         1014643         71         0         134         72         74         74         74           1996         6490         23         71         24         26         71         74           1996         6490         71         74         74         74         74         74         74         74     <			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
1         1         2         0         1         0         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1			
7000         1/3 (400)         1/3         20         0.15         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01 <th0.01< th="">         0.01         0.01         <t< td=""><td></td><td></td><td></td></t<></th0.01<>			
Quark         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdis< td=""><td>0.0195 0.0253</td><td>0.170</td><td></td></thdis<></thdisplay<></thdisplay<>	0.0195 0.0253	0.170	
1995         04196         0.23         22         100 (47025         No         10           1995         34/56         0.18         24         0         150 (47055         No         16           1995         34/56         0.18         24         0         150 (47055         No         16           1995         34/56         0.13         24         0         136         17         12           1995         44/56         0.13         24         0.01         346         10         13           1995         84/56         0.13         24         0.01         346         10         12           1996         87/56         0.12         12         0.01         97025         No         440         10           1996         0.35         12         0         0         97025         No         440         10			
1995         34/456         0.2         22         0         100         100         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10			
1985         94455         0.18         24         0         1000         12         12           1986         94455         0.18         23         0         0         1000         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12	2.5 5		
1166         64/15         6.7         28         0         36(PUC5)         100         27           1566         84/05         1.34         1.2         0.01         001         000         20           1586         86/05         1.34         1.2         0.01         0.01         000         20           1586         86/05         1.2         0.01         0.01         0.00         20           1586         0.012         0.01         0.001         0.001         0.001         20           1586         0.012         0.01         0.001         0.001         0.001         20			
1986         W16065         1,34         12         0.01         WPDES         No         A           1986         W5065         1,34         12         0.01         WPDES         No         A           1986         W5065         12         0         NO         WPDES         No         A			
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BODS         EG         PG         Lud         Pn         Zh           data         hr.         or. in         kit.         data         hr.         or. in         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data         data <t< td=""><td>Addition         Control         Teach         Teach         Annual         East of teach         Luth.         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     Meth         <th< td=""><td>4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         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 Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted         Texted</td><td>(1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         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Deck of teach         Luth.         BODDS         EG         PG         Luth         Ph         Zh           data         hr.         dr.         hr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr.         dr. | definition         Periodicity         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble         Turble <t< td=""><td>deptile         Terrent.         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Provide         TSS         TUL         BODS         EG         PG         Lu         Ph         Zh           date         h         date         h         h         h         date         trait         date         trait         date         TSS         N1U         BODS         EG         PG         Lev         Zh           date         h         date         trait         date         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait         trait<!--</td--><td>Annual delation         Term (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the latent)         Permet (<br/>to the l</td><td>And Detail         And Detail         Opened         Turb.         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Lut.bit.<br/>bit.         BODS<br/>bit.         EG         PG         bit.<br/>bit.         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa      
  Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa</td><td>Annual         Tarrent,<br/>attach         Control         Turb.<br/>bit         Final         Control         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Final         Fin</td><td>And Marken L         Filteration         Control         Text         No.         Stream         Current         Filteration         Stream         Current         Filteration         Stream         Current         Filteration         Stream         Current         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Filteration         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream         Stream</td><td>American (bit in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in the line in 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Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Control         Contr</td><td>depti.         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Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer&lt;</td><td>Applie         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment 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A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col        
Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td><td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         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    American (a)         American (a)         American (a)         American (a)         American (a)         American (a)         American (a)         American (a)         American (a)         American (a)&lt;</td><td>Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer         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Lut.bit.<br/>bit.         BODS<br/>bit.         EG         PG         bit.<br/>bit.         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa         Pa  
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   Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         <th< td=""><td>Ammoniant         Table Minice         Test Minice         Description         Link         Number Minice         Col         PS         Number Minice         Col         PS         And           debit         An         An         Number Minice         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt         Stratt  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Ziterent.<!--</td--><td>Option         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         Answert         Affrant         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Answer&lt;</td><td>Applie         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment         Amendment    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        Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr         Corr</td><td>Capital Line         Tankit         Reserve to the line         No.         Opende         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City         City 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 Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term <th< td=""><td>Meth         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         A</td><td>Meth         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term  
      Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         <th< td=""><td>Meth         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         <th< td=""><td>Meth         Term         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         <th< td=""><td>4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td><td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></td></th<></td></th<></td></th<></td></th<> | Meth         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         Answert         A | Meth         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term <th< td=""><td>Meth         Term         Term         Term         Term         Term         Term         Term         Term 
       Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         <th< td=""><td>Meth         Term         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         <th< td=""><td>4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td><td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></td></th<></td></th<></td></th<> | Meth         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term         Term <th< td=""><td>Meth         Term         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         <th< td=""><td>4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.     
   A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td><td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></td></th<></td></th<> | Meth         Term         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth         Meth <th< td=""><td>4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A</td><td>Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount<!--</td--><td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td><td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100        
100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></td></th<> | 4660         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A.         A | Month         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount         Amount </td <td>4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col&lt;</td> <td>400         100         2000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td> | 4600         A to be bare         7600         A to be bare         Col         Col         Model         Col         Col         Col         Col         Model         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col         Col  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## APPENDIX C TABULAR DEICING EVENT SAMPLE DATA SUMMARIES

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## APPENDIX D WHOLE EFFLUENT TOXICITY SAMPLE DATA SUMMARIES

WET	not tested	not tested	101 (GS(C)	%0	
	L		11.9	2.15	
-UZ-PN			0.056	0.097	
A MGREAK SUZT			CUU 07	200.02	
197P			0 00 AE	0.0061	
1 205	0.2	0.422	0.251	0.10	5
Automatical and a second and a second and a second and a second a second a second a second a second a second a	<0.002	grab storm 0.0422 <0.002 0.422	<0.002	0.000	200.02
CUNK OTER	0.0316	0.0422	0.0276	0.0078	0.004
tevent!	storm	storm	storm	storm	storm
[Npe	grab grab	grab	grab	e comp	9 comp
results Stormdate	02-Jul-99 grad storm 0.0316 <0.002 0.2	02-Jul-99	02-Jul-99 grab storm 0.0276 <0.002 0.251 0.005 0.056	05-Nov-9	05-Nov-9
tracing	299 GRAB 2	10 000 GE	SDN1 10INCH 070299 GRAB 1	999	660
ng/Sourc	VCH 070		<b>VCH 07</b>	1106 July	1100 hou
WET testing/Source 1	SDN1 36INCH 07029	SDN1 101NCH 07029	N1 101	SDN1 36inch 110699	SDN1 10inch 110699
₹ <b>N</b>	5	טא	212	S	S

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WET testing done using daphnia Pulex 100% sample concentration See Whole Effluent Testgin at Seattle-Tacoma International Airport: Final Report, May 2000

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#### APPENDIX E OTHER SAMPLE DATA

AR 051706

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	bottle blank, prior to sampling eqpt blank after sampling								, and a second second second second second second second second second second second second second second second		an alles a substantia and an and a substantia a substantia a substantia and an alles a substantia a substantia a	sampling problem for metals, but metals analysis not req'd,			
(COSUL)	<ul> <li>&lt;0.005 b</li> <li>&lt;0.005 e</li> <li>&lt;0.004 e</li> <li>&lt;0.004 e</li> </ul>	0.030	0.028	0.024	4%	0.079	3%	0.023 0.031	-30%	0.031	1	0.086	%0/-	0.0025	%0
	<ul> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> </ul>	0.001	0.001	0.001	%0	0.005	-11%	0.001	%0	0.001	%0	0.075 0.026	96%	0.001	%0
	<ul> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> <li>&lt;0.002</li> </ul>	0.028	0.025	0.020	15%	0.011	3%	0.012	-6%	0.018	-6%	0.098	134%	0.012	-86%
Sevie Sevie				2	%0	5 2	%0	15.4 21		3.1	-10%	2 2	%0	20	%0
1900 1900 1900	44		4.7 -2%	9	Ď		%0	47.0	[`	5.4		33.5	33%	4 04	
	0.4 0.35	12	14 15%		-					6.2 8		82 71	6 14%	1 3.1 6	-64
	<0.05 <0.05		11 0%	12	%0	17	11%	6.4 6.4	%0	3.6	25%	100 96	4%	11	-24%
	<0.15														
(MPN)	\$														
		plicates	6	-			Ь	•		-	6	-	6		
stortheart Blanks	05-Nov-99 SDN1 110599 bottle blank 05-Nov-99 SDN1 110699 blank 08-Dec-99 SDN3 120899 Blank 18-Apr-00 NPIN 041400 blank	Stormwater Composite Sample Duplicates 02-Jul-99 SDS3 070299 DUPE	SDS3 070299 RPD	SDN4 110699 DUPE SDN4 110699	UDA	9 SDE4 111799 DUPE	ЦРD	9 SDS3 120599 DUPE SDS3 120599	IdA	9 SDN4 120999 dupe	RPD	31-Jan-00 EY 013100 dupe EY 013100	DAN	13-Mar-00 SDN4 031400 dupe	RPD
silen allo Field Equi	05-Nov-99 05-Nov-99 08-Dec-99 18-Apr-00	Stormwate 02-Jul-99	a and the second second second second second second second second second second second second second second se	05-Nov-99		16-Nov-99	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	04-Dec-99		08-Dec-99		31-Jan-0(		13-Mar-0(	

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yellow shading indicates value <MDL replaced with 1/2 MDL

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#### APPENDIX F SOURCE TRACING SAMPLE DATA SUMMARIES

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#### SDE4 source tracing analyses in routine NPDES Grab samples

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SDE4 source tracing analyses in routine NPDES Grab sa	amples		4.11.16.11		Side Con	Inand
SDE4 source tracing analyses in routine NPDES Grab sa	EecalsIMEN	DE NHONSAT			0.527 101	28
first flush grab 02-Jul-99 SDE4 070299 grab	900	6.6 0.993 2.96	0.34	0.175	0.527 101	
first flush grab 16-Nov-99 SDE4 111699 GRAB	>1600	6.3	<u>.</u>			
first flush grab 24-Nov-99 SDE4 112499 GRAB	21	6.9 0.391 0.74	0.53	0.349	0.352 92.0	34
first flush grab 04-Dec-99 SDE4 120499 grab	50	6.8 0.388 0.987	0.39	0.617	0.100 79.4	32
first flush grab 13-Mar-00 SDE4 031300 grab	170	6.7				
TITST TIUSH GIAD TO-INIA-00 SDE4 031000 GRAB	130	6.7				
first flush grab 13-Apr-00 SDE4 041300 GRAB						

				Fecal coliform		Enterococcus	~	No. of
Site	Date/Time	Sample ID	Event	(CFU/100 mL)	Q	(CFU/100 mL)	Q	Isolates
			Dec. 1/2	8	F	NA		
SDE4-065	4/12/00 11:10	SDE4-065041200-1	Base 1+2	2		NA		
SDE4-065	4/12/00 12:30	SDE4-065041200-2	Base 1+2	2		NA		
SDE4-996	4/12/00 10:05	SDE4-996041200-1	Base 1+2			NA		
SDE4-996	4/12/00 12:10	SDE4-996041200-2	Base 1+2	2		NA		
SDS3-OUT	4/12/00 13:05	SDS3-OUT041200-1	Base 1+2	2				
SDS3-OUT	4/12/00 14:25	SDS3-OUT041200-2	Base 1+2	2		NA		
DMC-200	4/12/00 11:32	DMC-200041200-1	Base 1+2	8		NA		
DMC-200	4/12/00 14:00	DMC-200041200-2	Base 1+2	6	E	NA		
SDE4-065	4/25/00 9:15	SDE4-065042500-1	Storm 1+2	2,700		NA		
SDE4-065	4/25/00 11:00	SDE4-065042500-2	Storm 1+2	160	E	NA		
SDE4-005	4/25/00 8:40	SDE4-017042500-1	Storm 1+2	290		NA		
SDE4-017 SDE4-017	4/25/00 11:30	SDE4-017042500-2	Storm 1+2	700		NA		
SDE4-017 SDE4-996	4/25/00 8:15	SDE4-996042500-1	Storm 1+2	260		NA		
	4/25/00 10:40	SDE4-996042500-2	Storm 1+2	42		NA		
SDE4-996	4/25/00 10:40	SDS3-OUT042500-1	Storm 1+2	41		NA		
SDS3-OUT SDS3-OUT	4/25/00 10:15	SDS3-OUT042500-2	Storm 1+2	19		NA		
	4/25/00 12:20	DMC-200042500-1	Storm 1+2	2,000		NA		
DMC-200	4/25/00 10:00	DMC-200042500-2	Storm 1+2	1,900		NA		
DMC-200 SDE4-B	4/25/00 8:10	SDE4-996042500-B	Storm 1+2	1	L	NA		NA
			See	1,300		NA		
SDE4-065	5/8/00 0:00	SDE4-065050800-1	Storm 3	1,500		NA		
SDE4-017	5/8/00 0:00	SDE4-017050800-1	Storm 3	1,440	Б	NA		
SDE4-996	5/8/00 0:00	SDE4-996050800-1	Storm 3	64	E	NA		
SDS3-OUT	5/8/00 0:00	SDS3-OUT050800-1	Storm 3			NA		
DMC-200	5/8/00 0:00	DMC-200050800-1	Storm 3	560	Ŧ			NA
SDE4-B	5/8/00 0:00	SDE4-996050800-B	Storm 3	2	L	NA		INA
SDE4-065	5/9/00 0:00	SDE4-065050900-1	Storm 4+5	3,200	Ε	660		
SDE4-065	5/9/00 0:00	SDE4-065050900-2	Storm 4+5	5,200		760		
SDE4-017	5/9/00 0:00	SDE4-017050900-1	Storm 4+5	2,400	Ε	3,600	Ε	
SDE4-017	5/9/00 0:00	SDE4-017050900-2	Storm 4+5	540		1,160		
SDE4-996	5/9/00 0:00	SDE4-996050900-1	Storm 4+5	800		220	Ε	
SDE4-996	5/9/00 0:00	SDE4-996050900-2	Storm 4+5	1,180		1,140		
SDS3-OUT	5/9/00 0:00	SDS3-OUT050900-1	Storm 4+5	102		114		
SDS3-OUT		SDS3-OUT050900-2	Storm 4+5	38		72		
DMC-200	5/9/00 0:00	DMC-200050900-1	Storm 4+5	700		110		
DMC-200	5/9/00 0:00	DMC-200050900-2	Storm 4+5	700		1,480		
SDE4-B	5/9/00 0:00	SDE4-996050900-B	Storm 4+5		Ε		L	NA
	5/15/00 0-00	SDS3-OUT051600-1	Base 3+4	n	E	NA		
SDS3-OUT			Base 3+4 Base 3+4		Ē	NA		
SDS3-OUT		SDS3-OUT051600-2			<del>تا</del>	NA		
DMC-200	5/15/00 0:00	DMC-200051600-1	Base 3+4	52				
DMC-200 SDE4-B	5/15/00 0:00 5/15/00 0:00	DMC-200051600-2 SDE4-996051600-B	Base 3+4 Base 3+4	70 1	L	NA NA		NA
SDE4-065	5/26/00 0:00	SDE4-065052600-1	Storm 6+7	520		NA		

## Table 1. Stormwater data for the Sea-Tac Airport microbial source tracking study.

rz\posmst\00AppendixF

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1 4010 11 1							
	· · · · · · · · · · · · · · · · · · ·			Fecal coliform		Enterococcus	No. of
Site	Date/Time	Sample ID	Event	(CFU/100 mL)	<u>Q</u>	(CFU/100 mL) Q	Isolates
SDE4-065	5/26/00 0:00	SDE4-065052600-2	Storm 6+7	1,060		NA	
SDE4-017	5/26/00 0:00	SDE4-017052600-1	Storm 6+7	320	Е	NA	
SDE4-017	5/26/00 0:00	SDE4-017052600-2	Storm 6+7	660		NA	
SDE4-996	5/26/00 0:00	SDE4-996052600-1	Storm 6+7	440		NA	
SDE4-996	5/26/00 0:00	SDE4-996052600-2	Storm 6+7	100	E	NA	
SDS3-OUT		SDS3-OUT052600-1	Storm 6+7	<b>9</b> 0		NA	
SDS3-OUT		SDS3-OUT052600-2	Storm 6+7	54		NA	
DMC-200	5/26/00 0:00	DMC-200052600-1	Storm 6+7	2,160		NA	
DMC-200	5/26/00 0:00	DMC-200052600-2	Storm 6+7	1,040		NA	
SDE4-B	5/26/00 0:00	SDE4-996052600-B	Storm 6+7	2	L	NA	NA
SDE4-065	6/6/00 0:00	SDE4-065052600-1	Storm 8+9	220	E	NA	
SDE4-005	6/6/00 0:00	SDE4-065052600-2	Storm 8+9	2.200	E	NA	
SDE4-003 SDE4-017	6/6/00 0:00	SDE4-017052600-1	Storm 8+9	600		NA	
SDE4-017 SDE4-017	6/6/00 0:00	SDE4-017052600-2	Storm 8+9	10,000		NA	
SDE4-017 SDE4-996	6/6/00 0:00	SDE4-996052600-1	Storm 8+9	2	Е	NA	
SDE4-996	6/6/00 0:00	SDE4-996052600-2	Storm 8+9	40	E	NA	
SDS3-OUT		SDS3-OUT052600-1	Storm 8+9	4	Е	NA	
SDS3-OUT		SDS3-OUT052600-2	Storm 8+9	60	E	NA	
DMC-200	6/6/00 0:00	DMC-200052600-1	Storm 8+9	66		NA	
DMC-200	6/6/00 0:00	DMC-200052600-2	Storm 8+9	148		NA	
SDE4-B	6/6/00 0:00	SDE4-996052600-B	Storm 8+9	2	L	NA	NA
					_		
SDE4-065	6/12/00 0:00	SDE4-065052600-1	Storm 10+11	2,800			
SDE4-065	6/12/00 0:00	SDE4-065052600-2	Storm 10+11	1.600			
SDE4-017	6/12/00 0:00	SDE4-017052600-1	Storm 10+11	400			
SDE4-017	6/12/00 0:00	SDE4-017052600-2	Storm 10+11	3,800			
SDE4-996	6/12/00 0:00	SDE4-996052600-1	Storm 10+11	1,400	E		
SDE4-996	6/12/00 0:00	SDE4-996052600-2	Storm 10+11	64			
SDS3-OUT	6/12/00 0:00	SDS3-OUT052600-1	Storm 10+11	60			
SDS3-OUT	6/12/00 0:00	SDS3-OUT052600-2	Storm 10+11	84			
DMC-200	6/12/00 0:00	DMC-200052600-1	Storm 10+11	120	Ε		
DMC-200	6/12/00 0:00	DMC-200052600-2	Storm 10+11	\$20			
SDE4-B	6/12/00 0:00	SDE4-996052600-B	Storm 10+11	2	L		NA

Table 1. Stormwater data for the Sea-Tac Airport microbial source tracking study.

NA = not analyzed

Qalifiers (Q):

L = less than indicated detection limit

E = estimated due to less than 20 colonies counted

## 110

Sample	Date/Time	(CFU/100 mL) Q Is	No. of Isolates	Sample Location	Sample Description
Wastewater					
AWW-1	3/29/00 11:45	1,600 G*		Northwest 35 (Amsterdam) and 95 (Minneapolis)	Blue
AWW-2	5/4/00 13:20	10,000,000		Delta (St. Louis)	Blue
AWW-3	5/25/00 12:30	48,000,000 G	-	American (several domestic and Tokyo)	Blue
AWW-4	5/25/00 12:45	NA		Northwest (several domestic and Tokyo)	Blue
AWW-5	5/25/00 13:00	NA		American (several domestic)	Blue
AWW-6	6/15/00 11:30	41,000,000 G			
I-WWM	3/29/00 11:15	6,000		MWW (sanitary sewer)	Grey
MWW-2	5/4/00 14:00	39,000		MWW (sanitary sewer)	Grey
MWW-3	5/25/00 11:30	1,100.000		MWW (sanitary sewer)	Grey
MWW-4	5/25/00 12:00	NA		MWW (sanitary sewer)	Grey
S-WWM	6/15/00 11:00	1,900,000			
Animal Feces					
CROW-1	5/1/00	NA		Airport unknown (by USFW)	Black
D0G-1	3/29/00 11:20	NA		Grass 100 feet W of MWW	Light brown; 2.5 cm D
D0G-2	3/29/00 11:30	NA		Grass between Delta and Alaska hangers	Light brown; 1.9 cm D
D0G-3	3/29/00 11:35	NA		Grass between Delta and Alaska hangers	Light brown; 1.9 cm D
GOOSE-1	3/29/00 13:00	NA		40 yards NNE of outlet from west pond in golf course	Dark green with white; 1 cm D
GOOSE-2	5/1/00	NA		Airpot unknown (by USFW)	Dark green with white
GOOSE-3	5/1/00	NA		Airport unknown (by USFW)	Dark green with white
GOOSE-2	5/4/00 11:15	NA		Ferminal A roof, UNKNOWN ORIGIN	Not noted
PIGEON-1	3/29/00 14:00	NA		Circle drive at lower floor in parking lot	Dark green with white; 0.3 cm D coil
PIGEON-2	3/29/00 14:10	NA		Circle drive at upper floor in parking lot	Dark green with white; 0.3 cm D coil
PIGEON-3	5/4/00 11:30	NA		Terminal A roof	Not noted
PIGEON-4	5/4/00 11:45	NA		Terminal A roof	Not noted
STARLING-1	1 5/8/00	NA		Airport trap (by USFW)	Black
STARLING-2	2 5/8/00	NA		Airport trap (by USFW)	Black
WIGEON-1	3/29/00 12:50	NA		20 feet N of outlet from west pond in golf course	Black; 0.5 cm D
WIGEON-2	3/29/00 12:55	NA		40 feet N of outlet from west pond in golf course	Dark green; 0.5 cm D

Table 2. Wastewater and animal feces samples collected for the Sea Tac Airport microbial source tracking study.

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rz\posmst\00AppendixF\SDE4 MST Sources

Herrera Environmental Consultants

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## APPENDIX G OUTFALL INSPECTION SUMMARY

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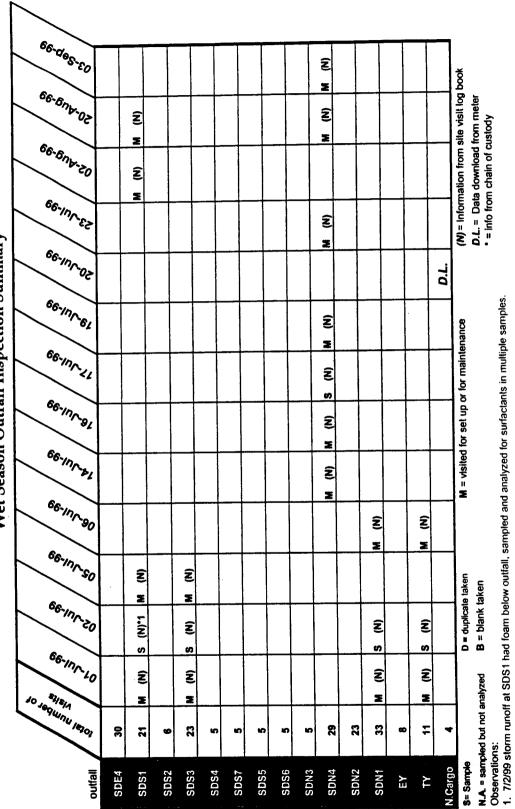
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Scott Tobiason

	<u>, ci vea</u>	CLICICORALICE Sea-Tac Airport Stomwater	c Airport St	ormwater Program	mer				
					<b>BANKS</b>	i di Oise	National State		
	Dry Weat or Permit contract contracted contracted	1999 Dry Weather Inspection for Permitted Outfalls Conducted on <u>911 91579</u> by <u>Scott robistion Port of Seatte</u>	ection 98		(50) (50) (50) (50)		acorito Accessive	ein	
SDE4	002	manhole SDE4-47	15-Sep	trickle	0 0	0 0	0 0	Ĕ	insignificant flow (<<1 gpm), no baseflow sample possible
SDS1	003	outfall	15-Sep	no flow		no dis	no discharge	2	no flow, pipe was dry
SDS2	ş	outfall	14-Sep	no flow	1	no dis	no discharge	đ	pipe and ditch were dry
SDS3	005	outfall	14-Sep	trickle	•	00	0 0	Ë	insignificant discharge (too little to sample), no problems apparent
SDN1	900	manhole SDN1-22	15-Sep	no flow		no dis	no discharge	ž -	no flow, pipe was barely damp
SDN2	200	manhole	14-Sep	no flow		no dis	no discharge	ž	no flow from pump station
SDN3	800	outfall	14-Sep	trickle	00	0	0	<u>_</u>	insignificant discharge (too little to sample), no problems apparent
SDS4	600	outfall	14-Sep	no flow		no dis	no discharge		
SDW3	010	manhole	14-Sep	no flow		ф С	no discharge	ā	pipe dry, 188th St North (west bound) road ditch recently cleaned to bare dirt, all vegetation removed (by City)
SDN4	011	outfall	14-Sep	no flow		no di	no discharge	٩	pipe dry
Eng Yard	012	drain inlet	15-Sep	no flow	1	ip or	no discharge	<u></u>	recent concrete cutting water on surface, maintenance notified
Taxi Yard	013	drain inlet	15-Sep	e e		no di	no discharge	0	dumpster area dirty, debris on ground, maintenance notified
Subbasin B	014	outfall	14-Sep	no flow		no di	no discharge	<u>a</u>	pipe dry, 188th St North (west bound) road ditch recently cleaned to bare dirt, all vegetation removed (by City)
Subbasin D	015	outfall	14-Sep	no flow		no di	no discharge	-	pipe dry. 188th St North (west bound) road ditch recently cleaned to bare dirt, all vegetation removed (by City)
notes:				oumped samo	e for ou	e preser Ifalls with	t monitoring	gnitude: g points t	1 note presence and magnitude: 0 = absent to constort absent to constort absertable sample for outfalls with monitoring points requiring confined-space entry (SDE4, SDN1, SDN2, EV, TY)
<ol> <li>Inspected visually from surface unough meas, or 2) your your will be period, noted in 2. Monthly sampling sites visited on numerous other dates during the period, noted in 3. Depths of flow are approximate, unless registered by local monitoring equipment.</li> </ol>	pling sites vis w are approx	ited on numerc imate, unless r	ous other d	ates during the	period. ing equi	noted in pment.	g the period, noted in remarks onitoring equipment.		
Other observations at non-permit locations:	tions at non-	permit locatio							
S 28th St outfal	II Na	outfall						Ĭ	optional location not inspected
DM Creek above SDS1	e/u	creek	15-Sep	- 4-	0	0	0		
DM Creek Wein at Goff Course	ir Na	creek			• • • •				optional location not inspected
DM Creek at SDS4	n/a	creek	15-Sep	4	0	0	0 0 0		
L. Reba outlet	r/a	outlet							

10/4/00

Wet Season Outfall Inspection Summary 1999-2000



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Page 1

Wet Season Outfall Inspection Summary 1999-2000

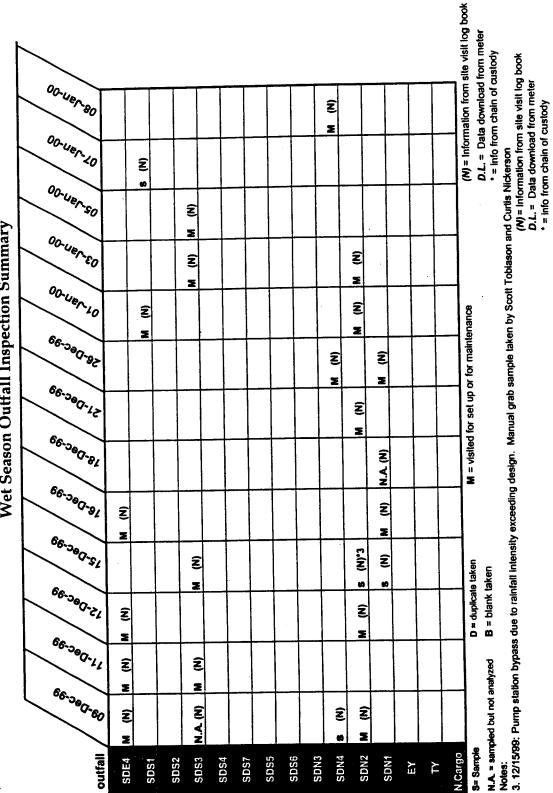
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105-EZ	les-or	130-LO	05-NO	0N-E0		ON-20	0N-50	°N-90		N-01	ON-OL	2N-11			
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	D = duplicate t	ate taken		$\mathbf{M} = visite$	ed for se	it up or f	M = visited for set up or for maintenance	enance			= 2	Information	tion from	(N) = Information from site visit log book	yood Do
N.A. = sampled but not analyzed	B = blank tal	taken									0.L.	= Uata (	0.L. = Uata downioad irom ir • - Info from chain of clistoriv	D.L. = Uata download from meter • - Info from chain of custody	i.
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9/23/99 storm runoff at SDS1 - 2 grab samples taken; considerable foam below outfall (~1 cubic foot), runoff was orange/ brown.
 Second sample taken about 1 hour later; there was much less foam, and runoff was clear

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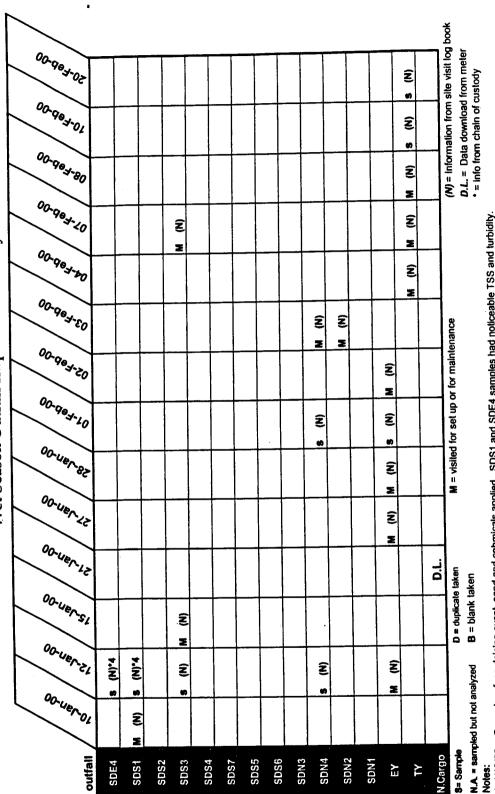
2000 Wet-Wx insp

1999-2000 Wet Season Outfall Inspection Summary .



2000 Wet-Wx insp

1999-2000 Wet Season Outfall Inspection Summary

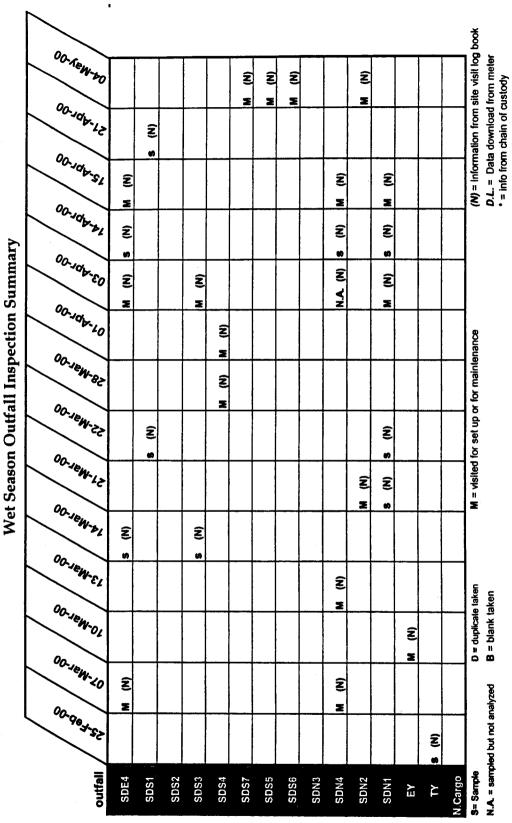


4. 1/12/00: Ground surface delcing event, sand and cehmicals applied. SDS1 and SDE4 samples had noticeable TSS and turbidity.

2000 Wet-Wx insp

10/4/00

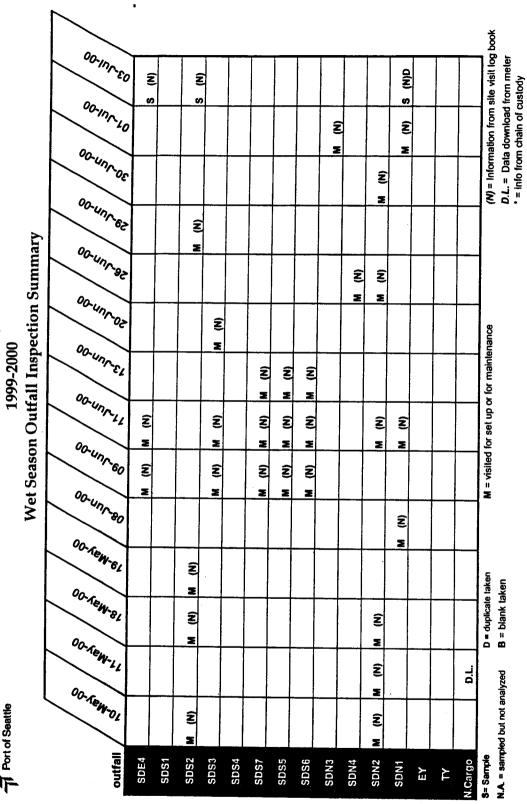
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2000 Wet-Wx Insp



2000 Wet-Wx insp

10/4/00

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