

February 28, 2018

VIA E-MAIL

Mr. David W. Gibson, Executive Officer  
California Regional Water Quality Control Board  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

Subject: CY2017 Pretreatment Annual Report for the South Bay Water Reclamation Plant  
Order No. R9-2013-0006 as Amended by Order No. R9-2014-0071

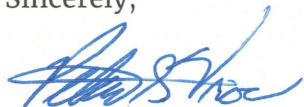
Dear Mr. Gibson:

The City of San Diego South Bay Water Reclamation Plant Pretreatment Program Annual Report for calendar year 2017, due March 1, 2018, is hereby submitted in accordance with the requirements of NPDES Permit No.CA0109045, adopted February 13, 2013. The Pretreatment Program operated by the City of San Diego administers the program for the entire Metropolitan Sewerage System tributary area, under a single budget and implementation strategy. Therefore, this report incorporates sections of the Point Loma Pretreatment Program Annual Report relating to program budget, structure, and implementation strategy by reference.

The City is committed to protecting public health and the environment through a program of environmental management, which includes source control, wastewater treatment, water reclamation, and extensive monitoring. One key element of the program is an aggressive pretreatment and pollution prevention program to minimize toxic discharges to the sewerage system. This report includes a summary of Pretreatment Program activities and accomplishments throughout jurisdictions tributary to the South Bay Water Reclamation Plant.

Should you have any questions concerning the information provided herein, or wish to discuss the report in detail, please contact John Steger of my staff, at (858) 654-4103.

Sincerely,



Peter S. Vroom, Ph.D.  
Deputy Director, Public Utilities Department

JAS/rd

cc: R9Pretreatment@epa.gov  
John Helminski, Assistant Director of Public Utilities, City of San Diego

POTW PRETREATMENT ANNUAL REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name: City of San Diego

Report Date: March 1, 2018

Period Covered by This Report: January 1, 2017 to December 31, 2017

Period Covered by Previous Report: January 1, 2016 to December 31, 2016

**Name of Wastewater Treatment Plant(s)** South Bay Water Reclamation Plant

**NPDES Permit Number** CA 0109045

Person to contact concerning information contained in this report:

**Name:** John Steger

**Title:** Industrial Wastewater Control Program Manager

**Mailing Address:** 9192 Topaz Way, MS 901D  
San Diego, CA 92123-1119

**Telephone No.:** (858) 654-4103

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

2-28-2018

Date



Peter Vroom, Ph.D.  
Deputy Director Public Utilities

# PRETREATMENT ANNUAL REPORT

## PCS Data Entry Form

**PPS1**

**POTW NAME:** City of San Diego South Bay Water Reclamation Plant and Ocean Outfall  
Flows from this plant can be diverted to the City of San Diego EW Blom Point Loma Plant, NPDES Permit No. CA0107409; therefore, this information is also included in the PCS for that POTW.

**NPDES Permit #:** CA0109045

**Period Covered By This Report:** 01/01/17 (PSSD) 12/31/17 (PSED)  
Start Date End Date

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Number of Significant Industrial Users in SNC with Pretreatment Compliance Schedule: 0 (SSNC)

Number of Notices of Violation and Administrative Orders Issued Against Significant Industrial Users: 21 (FENF)

Number of Civil & Criminal Judicial Actions against Significant Industrial Users: 0 (JUDI)

Number of Significant Industrial Users with Significant Violations Published: 1 (SVPU)

Number of Industrial Users from Which Penalties Have Been Collected: 0 (IUPN)



# **SOUTH BAY WATER RECLAMATION PLANT & OCEAN OUTFALL ANNUAL PRETREATMENT REPORT**

**NPDES PERMIT No. CA 0109045  
SDRWQCB ORDER No. R9-2013-0006 AS AMENDED  
BY ORDER No. R9-2014-0071**

**JANUARY 1 – DECEMBER 31, 2017**

Environmental Monitoring and Technical Services  
Public Utilities Department  
2392 Kincaid Road Mail Station 45A  
San Diego, CA 92101  
Tel (619) 758-2310 • Fax (619) 758-2309



# **2017 ANNUAL PRETREATMENT REPORT FOR SOUTH BAY WATER RECLAMATION PLANT**

## **I. Description of the South Bay Water Reclamation Plant and Its Service Area**

The South Bay Water Reclamation Plant (SBWRP) is located on a 22 acre site near Dairy Mart Road and Monument Road in the eastern portion of the Tijuana River Valley. The site is approximately 300 feet north of the international boundary between Mexico and the United States and approximately 2000 feet west of the International Wastewater treatment Plant (IWTP). The SBWRP treats raw wastewater collected from the southern portion of the City of San Diego, the City of Imperial Beach, the City of Chula Vista, and the unincorporated portions of south and east San Diego County, a total of approximately 44 square miles, and serves a population of nearly 107,000 people.

The plant is designed to treat up to 15 MGD of raw wastewater to secondary and/or tertiary reclaimed water standards. All SBWRP tertiary treated wastewater in excess of reclaimed water demands is discharged to the Pacific Ocean through the South Bay Ocean Outfall (SBOO). The SBOO was constructed for shared use by the IWTP, operated by the International Boundary and Water Commission (IBWC), and the City of San Diego's SBWRP. The SBOO extends westward approximately 23,600 feet from the mouth of the Tijuana River and terminates in a "wye" with two 1980 foot long diffusers. The IWTP currently discharges a maximum of 25 MGD of secondary treated wastewater from the City of Tijuana. This discharge is regulated by Regional Board Order No. R9-2014-0009 (NPDES Permit No. CA0108928). The total average design capacity of the outfall is 174 MGD with a peak hydraulic capacity of 233 MGD. The effluent from the SBWRP is combined with the effluent from the IWTP within the SBOO prior to discharge to the Pacific Ocean.

The SBWRP's primary and secondary processes consist of influent screening using mechanically cleaned bar screens, grit removal using aerated grit chambers, primary sedimentation clarifiers with chain and flight sludge collectors and tilting trough scum collectors, primary effluent flow equalization storage tanks, air activated sludge biological treatment with anoxic selector, and secondary clarifiers with chain and flight sludge collectors. The tertiary treatment process consists of filter feed pumping, coagulation with chemical addition, and direct filtration with conventional deep bed mono-media filters, backwash facilities, electro dialysis reversal (EDR) units, and disinfection using ultraviolet light. Sludge processing is handled at the Point Loma Wastewater Treatment Plant (PLWTP) and the Metropolitan Biosolids Center. Solids from the SBWRP are pumped to the PLWTP through the South Metro Interceptor.

The SBWRP began operations in 2002, accepting an average of 3.5 MGD influent through the Grove Avenue Pump Station (GAPS). In October 2003 the Otay River Pump Station (ORPS) came on-line. The ORPS is divided into two pumping streams, with one sending high TDS flows from the Imperial Beach Sewer directly to the South Metro Interceptor influent to the PLWTP, and the other sending flows from the Otay Trunk Sewer and Salt Creek Trunk Sewer to the GAPS. Since start-up, the ORPS facility has been directing nearly 5 MGD to the GAPS, which combines with the more than 3 MGD GAPS flow for a total of nearly 8 MGD influent to the SBWRP. In

that some wastewater from areas tributary to the GAP and ORPS is able to be diverted to the PLWTP via the South Metro Interceptor, facilities tributary to the GAP and ORPS are included in Annual Pretreatment Reports for both plants.

In 2017, the City installed two refurbished EDR units to provide for total dissolved solids (TDS) and chloride removal. Several issues have surfaced affecting their performance and while it's likely the units could be serviceable, they may not be reliable in a long term. Violations for recycled water monitoring were listed for chloride and percent sodium in 2017. The City is currently looking into other technologies and is performing a Business Case Evaluation to assess the best possible option for the plant.

## **II. Program Structure**

### **A. Pollution Prevention Plan Requirements**

No IUs have been required to prepare or implement a pollution prevention plan as the result of non-compliance.

### **B. Programs San Diego has implemented to reduce pollutants from industrial users not classified as SIUs**

The City controls pollutants discharged by non-SIUs and by non-industrial sources through a combination of Class 2 and 3 permits, Best Management Practice Certification programs, and Hazardous Waste Collection events and facilities throughout the Metropolitan Sewerage System service area in cooperation with contributing agencies. For details, see Chapters 2 and 3 of the Annual Report for the Point Loma POTW.

### **C. Pretreatment Program Changes**

There were no significant changes in operating the pretreatment program in the areas of administrative structure, local limits, monitoring program, legal authority, enforcement policy, or funding or staffing levels.

### **D. Annual Pretreatment Program Budget**

The pretreatment program budget is administered as a single budget for the three treatment plants in the Metropolitan Sewerage System service area. See Chapter 2, Section 2.3 of the Annual Report for the Point Loma POTW, for details.

### III. Permit Inventory

#### A. List of Deletions, Additions, and Name Changes of Significant Industrial Users

SIU FACILITIES THAT BECAME SIUs IN 2016					Note: UT; = Extracted Groundwater Permit	
Facility	Name	Class	Permit	Date	Comments	
NONE						
SIU FACILITIES THAT REPORTED A NAME CHANGE						
IU #	TO	Class	Permit	Date	FROM	
NONE						
FORMER SIU FACILITIES THAT BECAME NON-SIUs						
Facility	Name	Class	Permit	Date	Comments	
NONE						
SIU FACILITIES INACTIVATED						
Facility	Name	Class	Permit	Date	Comments	
NONE						

#### A.1 Permit Inventory by Class and Flow

Area	Class 1	IW (GPD)	Class 2	IW (GPD)	Class 3	IW (GPD)	BMP	Total Permits	Total GPD	Class 4C	Class 4
12	3	267	5	14,697	9	344,796	18	35	359,760	5	71
13	1	321	9	21,042	1	6,685	13	24	28,048	0	51
36	1	43,032	0	0		0	0	1	43,032	0	2
<b>Total</b>	<b>5</b>	<b>43,620</b>	<b>14</b>	<b>35,739</b>	<b>10</b>	<b>351,481</b>	<b>31</b>	<b>60</b>	<b>430,840</b>	<b>5</b>	<b>124</b>

#### B. Baseline Monitoring Reports Requested or Received

Facility Name	Facility #	BMR Requested	BMR Received
NONE			

#### B.1 Facilities Operating under a Baseline Monitoring Report

Facility Name	Facility #	BMR Received
AP Precision Metals	12-0144	17-Apr-2001
Harcon Precision Metals Inc	12-0244	17-Jun-2010
Heinz Frozen Foods	12-0154	30-Aug-2002
Integrated Energy Technologies Inc	13-0115	16-May-2002
Otay Mesa Energy Center LLC	36-0001	20-Jun-2007
Spec-Built Systems Inc	12-0202	28-Jun-2005

# SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection

## Treatment Plant 6

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<i>Facility Permit</i>	<i>Name</i>	<i>IW Discharged</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Federal/</i>	<i>CFR</i>	<i>CFR</i>	<i>Order</i>	<i>Pre Treat</i>
		<i>(gpd)</i>			<i>Local</i>	<i>Part</i>	<i>Section</i>		<i>Code</i>
12-0038 05-A	RJ Donovan Correctional Facility	55,595	100	Prison Sewer Main	Local	133		1	GREASE
								2	GRIND
								3	SCREEN
12-0065 04-A	Emerald Textiles LLC	66,242	110	Commercial Laundry	Local	133		1	LINT
								2	SETTLE
								3	HAUL
								4	RECYL
12-0144 05-A	AP Precision Metals	128	110	Metal Coating (Iron Phosphating)	Federal	433	.17	1	FILT-O
								2	SETTLE
								3	PH
12-0154 04-A	Heinz Frozen Foods	63,749	110	Food Manufacturing	Local	137		1	EQUAL
								2	SCREEN
								3	DAF+C
								4	GREASE
								5	HAUL
12-0202 03-A	Spec-Built Systems Inc	30	110	Iron Phosphating	Federal	433	.17	1	SETTLE
								2	RECYL
								3	PH
12-0220 04-A	Southwest Products LLC dba Circle Foods	99,222	110	Food manufacturing	Local	137		1	EQUAL
								2	SCREEN
								3	DAF+C
								4	SD-FP
12-0244 02-B	Harcon Precision Metals Inc	109	110	Chemical conversion coating & water Jet	Federal	433	.17	1	PH
								2	MIXER
								3	SETTLE
								4	HAUL
								5	EVAP
			120	CNC milling machining	Local	433	.17	1	EVAP
12-0275 02-A	Jensen Meat Company Inc	18,436	110	Meat processing, cleaning/sanitizing	Local	137		1	SCREEN
								2	ELBOW
								3	SETTLE
								4	HAUL
								5	DIVRTA
12-0283 02-A	Spectex Inc dba Specialty Textile Services	29,000	110	Commerical Laundry	Local	133		1	SETTLE
								2	LINT
								3	UF
								4	HAUL
12-0285 02-A	US General Services Administration - SYLPOE	556	110	Waste activated sludge	Local			1	SCREEN
								2	EQUAL
								3	BIO-AS
			120	Untreated wastewater	Local			1	SCREEN



# SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection Treatment Plant 6

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<i>Facility Permit</i>	<i>Name</i>	<i>IW Discharged (gpd)</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Federal/ Local</i>	<i>CFR Part</i>	<i>CFR Section</i>	<i>Order</i>	<i>Pre Treat Code</i>
12-0285 02-A	US General Services Administration - SYLPOE	556	130	Treated wastewater	Local			1 2 3 4 5 6 7	SCREEN EQUAL BIO-AS UF UV HAUL OZONE
13-0115 06-A	Integrated Energy Technologies Inc	321	200	Bldg 2 Lateral, 1887 Nirvana Av	Local			1 2	ZERO HAUL
			300	Bldg 3 Lateral, 757 Main St	Local	130		1 2	ERU+1 HAUL
			330	Dye Pen / Vibra Clean	Federal	433	.17	1 2 3	SETTLE IX FILT-O
13-0549 01-A	UT; Brenntag Pacific Inc	10,080	100	Groundwater Remediation	Local	101		1 2 3 4 5 6	O/W SETTLE CENT BIO+O2 FILT-O ADS-C
36-0001 02-A	Otay Mesa Energy Center LLC	43,032	110	WetSac blowdown + OWS	Federal	423	.17	1 2	SETTLE PH
			120	PCB zero discharge	Federal	423	.17	1	ZERO
			140	Turbine washing	Federal	423	.17	1	SETTLE

SIUs: 13

# SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Address</i>	<i>Conn</i>	<i>Total IW</i> ( <i>gpd</i> )	<i>Parmcode</i>	<i>City</i> <i>freq</i>	<i>Self</i> <i>freq</i>	<i>Cat</i>	<i>Period</i>	<i>Lower</i> <i>Limit</i>	<i>Upper</i> <i>Limit</i>	<i>Units</i>
12-0038	05-A	RJ Donovan Correctional Facility	480 Alta Rd, San Diego	100	55,595	OIL/GREASE	H	Q	L	DM		500	mg/L
						PH	H	Q	L	DM	5	12.5	pH
12-0065	04-A	Emerald Textiles LLC	1725 Dornoch Ct Suite 100, San Diego	110	66,217	OIL/GREASE	Q	Q	L	DM		500	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	Q		L	DM		12.5	pH
						SULFIDE DISSOLVD	M		L	DM		1	mg/L
12-0144	05-A	AP Precision Metals	1215 30th St, San Diego	110	128	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0154	04-A	Heinz Frozen Foods	7878 Airway Rd, San Diego	110	63,749	CHROMIUM	Q	Q	L	DM		5	mg/L
						OIL/G SCREEN	N		A	DM		500	mg/L
						OIL/GREASE	Q	M	L	DM		500	mg/L
						PH	Q	M	L	DM	5	12.5	pH
						PH HIGHEST	M		L	DM		12.5	pH
						SULFIDE DISSOLVD	Q		L	DM		1	mg/L
						TEMP	Q	M	F	DM		65.5	DegC
12-0202	03-A	Spec-Built Systems Inc	2150 Michael Faraday Dr, San Diego	110	30	CADMIUM	S	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	S	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	S	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	S	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	S	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	S	Q	F	DM		3.98	mg/L

# SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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Facility	Pmt	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
12-0202	03-A	Spec-Built Systems Inc	2150 Michael Faraday Dr, San Diego	110	30	NICKEL PH SILVER	S S S	Q Q Q	F L F	MO DM DM	5	2.38 12.5 .43	mg/L pH mg/L
						TTO(413+433)-P ZINC	A S	Q Q	F F	DM DM		.24 2130 2.61	mg/L ug/L mg/L
										MO		1.48	mg/L
12-0220	04-A	Southwest Products LLC dba Circle Foods	8411 Siempre Viva Rd, San Diego	110	99,222	OIL/G SCREEN OIL/GREASE PH	N Q Q		A M M	DM L L		500 500	mg/L mg/L
						PH HIGHEST SULFIDE DISSOLVD TEMP	M Q Q		L L M	DM DM DM	5	12.5 1 65.5	pH mg/L DegC
12-0244	02-B	Harcon Precision Metals Inc	1790 Dornoch Ct, San Diego	110	109	CADMIUM	S	S	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	S	S	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	S	S	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	S	S	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	S	S	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	S	S	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	S	S	L	DM	5	12.5	pH
						SILVER	S	S	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P ZINC	A S	S S	F F	DM DM		2130 2.61	ug/L mg/L
										MO		1.48	mg/L
12-0275	02-A	Jensen Meat Company Inc	2550 Britannia Bl Suite 101, San Diego	110	18,436	OIL/GREASE PH	Q Q	Q Q	L L	DM DM	5	500 12.5	mg/L pH
						PH HIGHEST SULFIDE DISSOLVD	Q Q		L L	DM DM		12.5 1	pH mg/L
12-0283	02-A	Spectex Inc dba Specialty Textile Services	1333 30th St Suite A, San Diego	110	29,000	OIL/GREASE PH	Q Q	Q Q	L L	DM DM		500 12.5	mg/L pH
						PH HIGHEST SULFIDE DISSOLVD	Q M		L L	DM DM	5	12.5 1	pH mg/L
12-0285	02-A	US General Services Administration - SYLPOE	720 E San Ysidro Bl, San Diego	110	106	SULFIDE DISSOLVD TSS	Q Q	Q M	L L	DM DM		1 10000	mg/L mg/L
13-0115	06-A	Integrated Energy Technologies	757 Main St, Chula Vista	330	320	CADMIUM	Q	Q	F	DM		.11	mg/L

# SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Address</i>	<i>Conn</i>	<i>Total IW</i> ( <i>gpd</i> )	<i>Parmcode</i>	<i>City</i> <i>freq</i>	<i>Self</i> <i>freq</i>	<i>Cat</i>	<i>Period</i>	<i>Lower</i> <i>Limit</i>	<i>Upper</i> <i>Limit</i>	<i>Units</i>
13-0115	06-A	Integrated Energy Technologies Inc	757 Main St, Chula Vista	330	320	CADMIUM	Q	Q	F	MO	.07		mg/L
						CHROMIUM	Q	Q	F	DM	2.77		mg/L
										MO	1.71		mg/L
						COPPER	Q	Q	F	DM	3.38		mg/L
										MO	2.07		mg/L
						CYANIDE(T)	Q	Q	F	DM	1.2		mg/L
										MO	.65		mg/L
						LEAD	Q	Q	F	DM	.69		mg/L
										MO	.43		mg/L
						NICKEL	Q	Q	F	DM	3.98		mg/L
										MO	2.38		mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	Q	Q	F	DM	.43		mg/L
										MO	.24		mg/L
						TTO(413+433)-P	A	Q	F	DM	2130		ug/L
						ZINC	Q	Q	F	DM	2.61		mg/L
										MO	1.48		mg/L
13-0549	01-A	UT; Brenntag Pacific Inc	1888 Nirvana Av, Chula Vista	100	10,080	3CLETHE	H	H	L	DM	26		ug/L
						4CLETHE	H	H	L	DM	700		ug/L
						BNZ(W/OAGG)	H	H	L	DM	50		ug/L
						BTEX	H	H	L	DM	750		ug/L
						FLOW MAX		M	L	DM	10080		gpd
						FLOW RATE MAX		M	L	DM	20		gpm
36-0001	02-A	Otay Mesa Energy Center LLC	606 De La Fuente Ct, San Diego	110	43,000	CHROMIUM	Q	Q	F	DM	.2		mg/L
						OIL/GREASE	Q	Q	L	DM	500		mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TDS	S	Q	L	DM	2000		mg/L
						ZINC	Q	Q	F	DM	1		mg/L
				140	22	COPPER	S	S	F	DM	1		mg/L

## Active NonSIU Permits, Treatment Plant 6

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### Class 2

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
12-0140	02-A	Kaiser Foundation Health Plan	4652 Palm Av, San Diego
12-0143	03-A	ADESA California LLC dba ADESA San Diego	2175 Cactus Rd, San Diego
12-0145	05-A	Larkspur Energy LLC	9355 Otay Mesa Rd, San Diego
12-0177	02-A	Truck Net LLC	8490 Avenida De La Fuente, San Diego
12-0254	01-A	Northwest Circuits Corp	8660 Avenida Costa Blanca, San Diego
13-0048	04-A	Hyspan Precision Products	1685 Brandywine Av, Chula Vista
13-0278	04-A	Republic Services dba Allied Waste Services	881 Energy Wy, Chula Vista
13-0298	04-A	Chula Vista Energy Center LLC	3497 Main St, Chula Vista
13-0316	03-A	Fuller Ford Kia	560 Auto Park Dr, Chula Vista
13-0327	03-A	Dresser-Rand	1675 Brandywine Av Suite E&F, Chula Vista
13-0399	02-A	Veolia Transportation	3650A Main St, Chula Vista
13-0533	01-A	Fleetwash Inc	649 Anita St Suite 1A, Chula Vista
13-0534	01-A	Super Welding of Southern California	609 Anita St, Chula Vista

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### Class 3

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
12-0024	03-A	US Border Patrol	3752 Beyer Bl, San Diego
12-0028	01-A	Palm Ave LLC	1835 Palm Av, San Diego
13-0439	01-A	Toyota Chula Vista	650 Main St, Chula Vista

3

Grand total: 16

## Active Groundwater Permits, Treatment Plant 6

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### Class 2

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
13-0549	01-A	UT; Brenntag Pacific Inc	1888 Nirvana Av, Chula Vista

1

Grand total: 1

## Dry Cleaners subject to BMPs, Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:15 am

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### **Class 4D**

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
12-0106	02-A	Saturn Cleaners	655 Saturn Bl Suite E, San Diego
12-0108	03-A	Rainbow Cleaners	2004 Dairy Mart Rd Suite 121, San Diego
2			

Grand total: 2

## Film Processors subject to BMPs, Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:18 am

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### **Class 2F**

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
12-0081	00-A	San Ysidro Health Center	4004 Beyer Bl, San Diego
12-0100	01-A	County; George Bailey Detention	446 Alta Rd, San Diego
12-0112	01-A	NAC	1330 30th St Suite E, San Diego
12-0113	01-A	So San Diego Veterinary Hosp	2910 Coronado Av, San Diego
12-0114	02-A	EZ Smiles Dental Care	1850 Coronado Av, San Diego
12-0115	01-A	Lewis J Dorria DDS	2930 Coronado Av, San Diego
12-0117	01-A	Montgomery High School	3250 Palm Av, San Diego
12-0119	01-A	Jeffrey W Brown DDS	1761 Palm Av, San Diego
12-0121	01-A	Jerome A Bannister DDS	4370 Palm Av Suite C, San Diego
12-0122	02-A	Carlos Garcia DDS	1270 Picador Bl Suite L-M, San Diego
12-0123	02-A	Southland Plaza Dental	655 Saturn Bl Suite G, San Diego
12-0124	01-A	I-5 Palm Ave Medical Clinic	655 Saturn Bl, San Diego
12-0125	02-A	San Ysidro Dental Care	2004 Dairy Mart Rd, San Diego
12-0186	01-A	Rancho Vista Medical & Therapy Center Inc	342 W San Ysidro Bl Suite F, San Diego
12-0222	01-A	Jose L Lopez DDS Inc	3490 Palm Av Unit 1, San Diego
12-0231	01-A	Juvenile Detention Facility	446 Alta Rd, San Diego
13-0117	02-A	Bay Port Press	645 Marsat St Suite D, Chula Vista
13-0235	01-A	Photo Max	1367 3rd Av, Chula Vista
13-0249	01-A	The Pet Clinic	3326 Main St, Chula Vista
13-0255	01-A	Hilltop Dentistry	11 Naples St, Chula Vista
13-0256	01-A	Langford Chiropractor	4360 Main St Suite 209, Chula Vista
13-0257	01-A	Robert N Woodall DDS Inc	330 Oxford St, Chula Vista
13-0261	02-A	Palomar Dental Group	648 Palomar St, Chula Vista
13-0333	01-A	Costco Wholesale Photo Lab # 781	1130 Broadway, Chula Vista
13-0379	01-A	Amazon Animal Hospital	1172 3rd Av Suite D8, Chula Vista
13-0387	01-A	Perpecta Dental Group	314 Palomar St, Chula Vista
13-0388	01-A	Palomar Dental Group	664 Palomar St Suite 1103, Chula Vista
13-0442	01-A	Wal-Mart # 3516	1360 Eastlake Py, Chula Vista
13-0456	01-A	East Lake Plaza Dental	2060 Otay Lakes Rd Suite 230, Chula Vista
29			

Grand total: 29

## IV. SIU Compliance and Enforcement

### A. Annual Compliance Summary

During the year covered in this report the program administered 13 SIU permits, covering 13 outfalls and monitored at 13 sample points and one facility was in SNC during the year. These facilities are included in the calculation of the Metro System annual Significant Non-Compliance Rate reported in the Pretreatment Annual Report for the Point Loma POTW, NPDES Permit No. CA 0107409

### B. Characterization of the Compliance Status of Each SIU

The Annual SIU Compliance Status Report, which follows this page, lists the industry name, address, permit number, permit class; industrial flow by connection; violation dates and descriptions, if applicable; discharge standard and period, and actual value resulting in the violation; whether the violation exceeded the TRC; and whether the industry has been in Significant Non-Compliance (SNC) at any time during the year.

### C. SIU Enforcement Actions Initiated, Continued, or Finalized

#### **RJ Donovan Correctional Facility; IU # 12-0038**

This medium security prison discharges about 55,000 gpd from its laundry, kitchen, and bakery. The permit requires quarterly self-monitoring at the combined outfall designated as Connection 100. The IU submitted its Self-Monitoring Reports (SMRs) due January 15, 2016 and April 15, 2016 on June 14, 2016 (151 and 60 days late, respectively), and was therefore in SNC for late reporting in the 1<sup>st</sup> and 2<sup>nd</sup> quarters. NOVs were issued for the violations and the SMR due July 15, 2016 was received on time. Subsequently the IU failed to submit the SMRs due October 15, 2016, January 15, 2017, and July 15, 2017. Initial NOVs were issued and then second NOVs were issued when the IU failed to respond. The IU did submit the SMRs due in April 2017, October 2017, and January 2018 on time; however the reports due in January 2017 and July 2017 (396 and 215 days late respectively) have still not been submitted, resulting in SNC status for the 1<sup>st</sup> and 3<sup>rd</sup> quarters of 2017. Further enforcement actions are planned.

### D. Public Information and Involvement

Each year, a combined list of all facilities in the Metropolitan Sewerage System service area that were in SNC at any time during the year is published in the Union Tribune; this list is included in Chapter 4 of the Annual Report for the Point Loma POTW NPDES Permit No. CA 0107409

The following SIUs discharging tributary to the SBWRP were in Significant Non-Compliance:

Name	Address	Pollutant in Violation
RJ Donovan Correctional Facility	480 Alta Rd, San Diego, CA 92179	Report Late > 30 days 1 <sup>st</sup> quarter

# Annual SIU Compliance Status Report

01-Jan-2017 through 31-Dec-2017

Page 1

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
<b>AP Precision Metals</b> 1215 30th St, San Diego	12-0144	1	128	No		110	27-Jul-17	SMR Late - written notice					
<b>Emerald Textiles LLC</b> 1725 Dornoch Ct Suite 100, San Diego	12-0065	3	66242	No		NA							
<b>Harcon Precision Metals Inc</b> 1790 Dornoch Ct, San Diego	12-0244	1	109	No		NA							
<b>Heinz Frozen Foods</b> 7878 Airway Rd, San Diego	12-0154	3	63749	No		110	25-Apr-17	Sulfides, Dissolved-Instantaneous	4.3	1	DM	L	Y
						110	20-Jul-17	pH-lowest value	4.2	5	DM	L	N
						110	26-Oct-17	SMR Late - written notice					
<b>Integrated Energy Technologies Inc</b> 757 Main St, Chula Vista	13-0115	1	321	No		330	07-Aug-17	SMR Incomplete					
<b>Jensen Meat Company Inc</b> 2550 Britannia Bl Suite 101, San Diego	12-0275	3	18436	No		110	13-Jun-17	Delinquent Requirement					
						110	10-Jul-17	Sulfides, Dissolved-Instantaneous	7.8	1	DM	L	Y
						110	17-Oct-17	Sulfides, Dissolved-Instantaneous	1.8	1	DM	L	Y
						110	17-Oct-17	Sulfides, Dissolved-Instantaneous	2.2	1	DM	L	Y
						110	17-Oct-17	Sulfides, Dissolved-Instantaneous	2.3	1	DM	L	Y
<b>Otay Mesa Energy Center LLC</b> 606 De La Fuente Ct, San Diego	36-0001	1	43032	No		NA							
<b>RJ Donovan Correctional Facility</b> 480 Alta Rd, San Diego	12-0038	3	55595	Yes	SNC6 - Report Late > 45 days	100	10-Feb-17	SMR Late - written notice					
						100	08-May-17	SMR Incomplete					
						100	27-Jul-17	SMR Late - written notice					



## Annual SIU Compliance Status Report

01-Jan-2017 through 31-Dec-2017

Page 2

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
<b>Southwest Products LLC dba Circle Foods</b> 8411 Siempre Viva Rd, San Diego	12-0220	3	99222	No		110	22-Mar-17	SMR Late - written notice					
<b>Spec-Built Systems Inc</b>  2150 Michael Faraday Dr, San Diego	12-0202	1	30	No		110	11-Sep-17	Pretreatment Bypass/Failure					
<b>Spectex Inc dba Specialty Textile Services</b> 1333 30th St Suite A, San Diego	12-0283	3	29000	No		110	21-Sep-17	SMR Late - written notice					
<b>US General Services Administration - SYLPOE</b> 720 E San Ysidro Bl, San Diego	12-0285	3	556	No		NA							
<b>UT; Brenntag Pacific Inc</b>  1888 Nirvana Av, Chula Vista	13-0549	2	10080	No		NA							

## NOVs Issued in 2017 for SIUs Discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:42 am

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<i>Name</i>	<i>Facility</i>	<i>Conn</i>	<i>NOV</i>	<i>Identified</i>	<i>Action</i>	<i>Viol Date</i>	<i>Fee</i>	<i>Level</i>
AP Precision Metals	12-0144	110	86519	27-Jul-2017	27-Jul-2017		100	Initial notice
Heinz Frozen Foods	12-0154	110	86239	26-Jun-2017	26-Jun-2017	25-Apr-2017	100	Initial notice
			87297	26-Oct-2017	26-Oct-2017		50	Notice only
			87548	20-Nov-2017	20-Nov-2017	20-Jul-2017	100	Initial notice
Integrated Energy Technologies Inc	13-0115	330	86592	07-Aug-2017	07-Aug-2017	03-Jul-2017	50	Notice only
Integrated Energy Technologies Inc	13-0115	410	84703	09-Feb-2017	25-Sep-2017		50	Notice only
Jensen Meat Company Inc	12-0275	110	86168	13-Jun-2017	13-Jun-2017		300	Prelim Conf
			86391	18-Jul-2017	18-Jul-2017	11-Jul-2017	100	Final notice
			87867	04-Dec-2017	04-Dec-2017	17-Oct-2017	100	Initial notice
RJ Donovan Correctional Facility	12-0038	100	80912	26-Jan-2016	13-Feb-2017		100	Final notice
			81872	22-Apr-2016	27-Feb-2017		100	Final notice
			83356	31-Mar-2016	29-Nov-2017		305	Final notice
			83771	24-Oct-2016	27-Feb-2017		75	Second notice
			85043	10-Feb-2017	10-Feb-2017		100	Initial notice
			85043	10-Feb-2017	13-Mar-2017		75	Second notice
			85649	08-May-2017	09-May-2017	06-Apr-2017	50	Notice only
			86518	27-Jul-2017	27-Jul-2017		100	Initial notice
			86518	27-Jul-2017	28-Aug-2017		75	Second notice
Southwest Products LLC dba Circle Foods	12-0220	110	85338	22-Mar-2017	22-Mar-2017		50	Notice only
Spec-Built Systems Inc	12-0202	110	87282	11-Sep-2017	17-Oct-2017		300	Prelim Conf
Spectex Inc dba Specialty Textile Services	12-0283	110	87145	21-Sep-2017	21-Sep-2017		100	Initial notice
Total fees:							\$2,380	
NOV count:			21					

## NOVs Issued in 2017 for nonSIUs Discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:43 am

Page 1

<i>Name</i>	<i>Facility</i>	<i>Conn</i>	<i>NOV</i>	<i>Identified</i>	<i>Action</i>	<i>Viol Date</i>	<i>Fee</i>	<i>Level</i>
Total fees:								
NOV count:			0					

# Sampling in 2017 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:44 am

Page 1

<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt</i> <i>Include</i>	<i>Parmcode</i>	<i>City</i> <i>Samples</i>	<i>Self</i> <i>Samples</i>
12-0038	05-A	RJ Donovan Correctional Facility	100	Prison Sewer Main	L	COD	3	2
						OIL/GREASE	1	2
						BIOHAZARD CERT		
						SOLVENT CERT		
						TSS	3	2
						PH	3	2
12-0065	04-A	Emerald Textiles LLC	110	Commercial Laundry	L	FLOW MAX		12
						PH	3	4
						TDS	3	4
						PH LOWEST	3	
						COD	3	4
						PH HIGHEST	3	
						TSS	3	4
						CHLORIDE	2	4
						OIL/GREASE	3	4
						SULFIDE DISSOLVD	14	
						FLOW		12
12-0144	05-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	F	FLOW MAX		3
						NICKEL	2	3
						TTO CERT		3
						CADMIUM	2	3
						PH	2	3
						SILVER	2	3
						TTO(413+433)-P		
						CHROMIUM	2	3
						FLOW		3
						LEAD	2	3
						CYANIDE(T)	2	3
						COPPER	2	3
						ZINC	2	3
12-0154	04-A	Heinz Frozen Foods	110	Food Manufacturing	L	COD	9	11
						SULFIDE DISSOLVD	13	
						OIL/GREASE	7	11
						PH LOWEST	8	
						TSS	9	11
						FLOW TOTIMPORTED		11
						TEMP	7	11
						FLOW MAX		11
						OIL/G SCREEN		
						PH HIGHEST	8	
						CHROMIUM	3	3
						FLOWMETER READ 1	9	11
						PH	7	11

# Sampling in 2017 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:44 am

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<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt</i> <i>Include</i>	<i>Parmcode</i>	<i>City</i> <i>Samples</i>	<i>Self</i> <i>Samples</i>
12-0154	04-A	Heinz Frozen Foods	110			FLOW		11
						FLOWMETER READ 2	9	11
12-0202	03-A	Spec-Built Systems Inc	110	Iron Phosphating	F	CHROMIUM	2	1
						NICKEL	2	1
						CYANIDE(T)	2	1
						ZINC	2	1
						FLOW MAX		3
						LEAD	2	1
						PH	2	1
						COPPER	2	1
						FLOW		3
						SILVER	2	1
						CADMIUM	2	1
						TTO CERT		3
12-0220	04-A	Southwest Products LLC dba Circle Foods	110	Food manufacturing	L	TTO(413+433)-P	1	
						OIL/GREASE	3	10
						SULFIDE DISSOLVD	3	
						PH HIGHEST	7	
						TEMP	2	10
						OIL/G SCREEN		
						PH	2	10
						PH LOWEST	7	
12-0244	02-B	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	F	CYANIDE(T)	2	1
						PH	2	1
						TSS	2	1
						TTO CERT		1
						FLOW		1
						TTO(413+433)-P	1	
						NICKEL	2	1
						CHROMIUM	2	1
						COD	2	1
						CADMIUM	2	1
						FLOW MAX		1
						ZINC	2	1
						COPPER	2	1
						LEAD	2	1
						SILVER	2	1
			120	CNC milling machining	L	ZERODISCHRG CERT		1
12-0275	02-A	Jensen Meat Company Inc	110	Meat processing, cleaning/sanitizing	L	CHLORIDE	3	3
						TDS	4	3
						CLARIFIER RPT		3
						PH LOWEST	4	
						RAIN DIVERT CERT		

# Sampling in 2017 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:44 am

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<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt</i> <i>Include</i>	<i>Parmcode</i>	<i>City</i> <i>Samples</i>	<i>Self</i> <i>Samples</i>
12-0275	02-A	Jensen Meat Company Inc	110			OIL/GREASE	8	3
						TSS	4	3
						TFDS	4	3
						FLOW MAX		10
						SULFIDE DISSOLVD	17	
						COD	4	3
						PH	9	3
						FLOW		10
						PH HIGHEST	4	
12-0283	02-A	Spectex Inc dba Specialty Textile Services	110	Commerical Laundry	L	PH	5	3
						FLOW		10
						PH HIGHEST	5	
						SULFIDE DISSOLVD	7	
						OIL/GREASE	5	3
						PH LOWEST	5	
						TSS	5	3
						COD	5	3
						FLOW MAX		10
12-0285	02-A	US General Services Administration - SYLPOE	110	Waste activated sludge	L	SULFIDE DISSOLVD	1	1
						TDS	1	
						TSS	1	4
						COD	1	4
			120	Untreated wastewater	L			
			130	Treated wastewater	L			
13-0115	06-A	Integrated Energy Technologies Inc	200	Bldg 2 Lateral, 1887 Nirvana Av	L	ZERODISCHRG CERT		2
			300	Bldg 3 Lateral, 757 Main St	L	SILVER CERT		2
			330	Dye Pen / Vibra Clean	F	CADMIUM	2	2
						PH HIGHEST	1	
						PH LOWEST	1	
						TTO(413+433)-P		
						PH	2	2
						SILVER	2	2
						TTO CERT		2
						ZINC	2	2
						CHROMIUM	2	2
						COPPER	2	2
						NICKEL	2	2
						FLOW		2
						FLOW MAX		1
						CYANIDE(T)	2	2
						LEAD	2	2
13-0549	01-A	UT; Brenntag Pacific Inc	100	Groundwater Remediation	L	BNZ(W/OAGG)		5
						FLOW RATE MIN		10

## Sampling in 2017 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, January 18, 2018 11:44 am

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<i>Facility</i>	<i>Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt</i> <i>Include</i>	<i>Parmcode</i>	<i>City</i> <i>Samples</i>	<i>Self</i> <i>Samples</i>
13-0549	01-A	UT; Brenntag Pacific Inc	100			TSS	1	10
						3CLETHE		5
						FLOW TOTIMPORTED		12
						FLOWMETER READ 2		10
						COD	1	10
						FLASH	1	5
						FLOW MAX		10
						FLOW RATE MAX		10
						FLOWMETER READ 1		10
						AUTOSHUTDOWN RPT		10
						BTEX		5
						4CLETHE		5
36-0001	02-A	Otay Mesa Energy Center LLC	110	WetSac blowdown + OWS	F	CHROMIUM	3	4
						PH LOWEST		
						FLOW MAX		4
						ZINC	3	4
						PH	3	4
						OIL/GREASE	3	4
						PH HIGHEST		
						FLOW		4
						TDS	2	4
			120	PCB zero discharge	F	ZERODISCHRG CERT		4
			140	Turbine washing	F	COPPER	2	
						FLOW MAX		1
						FLOW		1

SIUs: **13**

## **V. Pretreatment Program Effectiveness**

A. Summary of analytical results from representative flow-proportioned, 24-hour composite sampling of the SBWRP influent and effluent for those pollutants that the USEPA has identified under Section 307(a) of the CWA, and which are known or suspected to be discharged by industrial users. The summary must include a full priority pollutant scan.

Tables V. A-1 and V. A-2, below, summarize influent and effluent heavy metal loadings by month.

Pages 22 through 44 provide results for all influent and effluent of all priority pollutants and other pollutants of concern. These reports were extracted from the South Bay Treatment Plant and Ocean Outfall Annual Report. The summary includes a full priority pollutant scan.



<b>TABLE V.A-1</b> <b>SOUTH BAY WATER RECLAMATION PLANT INFLUENT HEAVY METALS</b> <b>Average Concentration and Loadings</b>								
ND or <MDL = 0								
	Flow MGD	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Ag ug/L	Zn ug/L
MDL(ug/L)		0.26	0.54	2.16	1.68	0.53	0.73	4.19
Jan	7.27	0	3.25	106	0.0	4.56	0	204
Feb	7.32	0.39	12.90	103	3.69	8.90	0	200
Mar	7.88	0	3.00	76.4	2.0	4.14	0	163
Apr	7.90	0	2.62	84.3	0.0	4.90	1	174
May	7.76	0	4.58	96.3	1.7	6.18	0.00	184
Jun	7.89	0.35	5.35	127	4.1	6.37	1	227
Jul	7.63	0.27	3.89	86.7	0.0	5.24	1	210
Aug	7.37	0	2.71	82.4	2.3	4.52	0	132
Sep	6.97	0	1.82	85.4	1.4	4.10	0	147
Oct	6.98	0.15	3.24	95	1.8	4.53	0.29	179
Nov	6.94	0.13	1.78	92.4	1.94	4.86	0.10	168
Dec	6.82	0.14	2.38	95.6	1.44	4.51	0.19	149
Average Flow MGD	7.39							
Average ug/L		0.12	3.96	94.21	1.70	5.23	0.33	178.08
LBS/day		0.01	0.24	5.81	0.10	0.32	0.02	10.98
PL Total Lbs HM	17.49							
PL Total lb (-)Ag	17.47							

<b>TABLE V.A-2</b> <b>SOUTH BAY WATER RECLAMATION PLANT EFFLUENT HEAVY METALS</b> <b>Average Concentration and Loadings</b>								
ND or <MDL = 0								
Month	Flow MGD	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Ag ug/L	Zn ug/L
MDL(ug/L)		0.26	0.54	2.16	1.68	0.53	0.73	4.19
Jan	6.20	0	0.78	15.6	0	2.96	0	54.0
Feb	6.24	0	1.18	5.49	0	7.61	0	19.4
Mar	5.72	0	0.90	15.3	0	2.74	0	55.9
Apr	3.04	0	1.04	11.5	0	2.56	0	57.9
May	3.64	0	0.65	10.4	0	2.53	0	59.7
Jun	2.54	0	0.62	9.61	2.53	2.70	0	54.9
Jul	1.91	0	0.83	9.81	0	3.26	0	57.7
Aug	1.63	0	0.79	7.72	0	2.41	0.88	58.8
Sep	1.99	0	0.49	8.66	0.18	2.81	0	56.4
Oct	2.09	0	0.64	8.58	0.33	2.71	0	54.4
Nov	3.53	0	0.36	6.11	0.32	2.69	0	59.7
Dec	3.32	0	0.39	7.76	0.27	32.03	0	41.2
Average Flow MGD	3.49							
Average ug/L		0.00	0.72	9.71	0.30	5.58	0.07	52.50
LBS/day		0.00	0.02	0.28	0.01	0.16	0.00	1.53
Total lb HM	2.0							
Total lb (-)Ag	2.0							

SOUTH BAY WATER RECLAMATION PLANT  
SEWAGE INFLUENT and EFFLUENT

Annual 2017

Total Suspended Solids Concentration  
(24-hour composite)

Month/ Units:	Influent Flow (MGD)	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS (%)	Daily Influent Mass Emission (lbs/Day)
=====	=====	=====	=====	=====	=====
JANUARY -2017	7.27	278	256	92.1	16856
FEBRUARY -2017	7.32	279	259	92.8	17033
MARCH -2017	7.88	272	250	91.9	17876
APRIL -2017	7.90	285	264	92.6	18778
MAY -2017	7.76	273	256	93.8	17668
JUNE -2017	7.89	285	264	92.6	18754
JULY -2017	7.63	290	263	90.7	18454
AUGUST -2017	7.37	276	258	93.5	16965
SEPTEMBER-2017	6.97	270	247	91.5	15695
OCTOBER -2017	6.98	270	247	91.5	15718
NOVEMBER -2017	6.94	279	253	90.7	16148
DECEMBER -2017	6.82	295	275	93.2	16779
=====	=====	=====	=====	=====	=====
Average	7.39	279	258		17227

Total Suspended Solids Concentration  
(24-hour composite)

Month/ Units:	Effluent Flow (MGD)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS (%)	Daily Effluent Mass Emission (lbs/Day)	Percent Removal TSS (%)	Percent Removal VSS (%)
=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	6.20	6.8	6.1	89.7	352	97.6	97.6
FEBRUARY -2017	6.24	8.0	7.2	90.0	416	97.1	97.2
MARCH -2017	5.72	9.1	8.3	91.2	434	96.7	96.7
APRIL -2017	3.04	<2.5	ND	*	0	100.0	100.0
MAY -2017	3.64	3.0	2.7	90.0	91	98.9	98.9
JUNE -2017	2.54	2.8	2.6	92.9	59	99.0	99.0
JULY -2017	1.91	4.1	3.7	90.2	65	98.6	98.6
AUGUST -2017	1.63	<2.5	<2.5	*	0	100.0	100.0
SEPTEMBER-2017	1.99	3.3	2.7	81.8	55	98.8	98.9
OCTOBER -2017	2.09	2.5	<2.5	0.0	44	99.1	100.0
NOVEMBER -2017	3.53	5.6	4.9	87.5	165	98.0	98.1
DECEMBER -2017	3.32	6.4	5.7	89.1	177	97.8	97.9
=====	=====	=====	=====	=====	=====	=====	=====
Average	3.49	4.3	3.7		155	98.5	98.6

\*= undetermined, the percent VSS was not calculated because TSS and VSS results were below the MDL.

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas  
Monthly Report average mass emissions are calculated from average daily mass emissions.

VSS= Volatile Suspended Solids  
TSS= Total Suspended Solids

ND= not detected

## SOUTH BAY WATER RECLAMATION PLANT

Annual 2017

Influent to Plant  
(SB\_INF\_02)

Analyte:	Flow	pH	Total Dissolved Solids	Biochemical Oxygen Demand	Total Suspended Solids	Volatile Suspended Solids	Turbidity
Units:	(mgd)	(pH)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(NTU)
=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	7.27	NR	1060	402	278	256	NR
FEBRUARY -2017	7.32	7.55	1040	357	279	259	152
MARCH -2017	7.88	NR	1120	331	272	250	NR
APRIL -2017	7.90	NR	973	341	285	264	NR
MAY -2017	7.76	7.66	990	324	273	256	175
JUNE -2017	7.89	NR	1040	328	285	264	NR
JULY -2017	7.63	NR	973	297	290	263	NR
AUGUST -2017	7.37	7.42	1040	292	276	258	195
SEPTEMBER-2017	6.97	NR	1030	339	270	247	NR
OCTOBER -2017	6.98	7.61	1030	332	270	247	200
NOVEMBER -2017	6.94	NR	1020	272	279	253	NR
DECEMBER -2017	6.82	NR	1050	303	295	275	NR
=====	=====	=====	=====	=====	=====	=====	=====
Average	7.39	7.56	1031	327	279	258	181

ND=not detected; NR=not required

SOUTH BAY WATER RECLAMATION PLANT

Annual 2017

Effluent to Ocean Outfall  
(SB\_OUTFALL\_01)

Analyte:	Flow	pH	Settleable Solids	Biochemical Oxygen Demand	Total Suspended Solids	Volatile Suspended Solids	Total Dissolved Solids
Units:	(mgd)	(pH)	(ml/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	6.20	7.23	0.0	9	6.8	6.1	1050
FEBRUARY -2017	6.24	7.21	0.0	8	8.0	7.2	1090
MARCH -2017	5.72	7.25	0.0	10	9.1	8.3	1080
APRIL -2017	3.04	7.18	0.0	<2	<2.5	0.0	918
MAY -2017	3.64	7.20	0.0	4	3.0	2.7	981
JUNE -2017	2.54	7.24	0.0	4	2.8	2.6	1040
JULY -2017	1.91	7.30	0.0	4	4.1	3.7	978
AUGUST -2017	1.63	7.32	0.0	3	<2.5	<2.5	997
SEPTEMBER-2017	1.99	7.19	0.0	4	3.3	2.7	986
OCTOBER -2017	2.09	7.17	0.0	3	2.5	<2.5	1030
NOVEMBER -2017	3.53	7.14	0.0	5	5.6	4.9	983
DECEMBER -2017	3.32	7.21	0.0	6	6.4	5.7	1030
=====	=====	=====	=====	=====	=====	=====	=====
Average	3.49	7.22	0.0	5	4.3	3.7	1014

Analyte:	Oil & Grease	Outfall Temperature	Residual Chlorine	Turbidity	Dissolved Oxygen
Units:	(mg/L)	(°C)	(mg/L)	(NTU)	(mg/L)
=====	=====	=====	=====	=====	=====
JANUARY -2017	2.4	22.7	<0.03	2.84	2.39
FEBRUARY -2017	2.9	22.6	<0.03	3.09	2.38
MARCH -2017	3.4	23.4	<0.03	3.59	1.70
APRIL -2017	3.8	24.5	<0.03	0.79	1.78
MAY -2017	5.2	25.0	<0.03	1.48	1.92
JUNE -2017	2.6	25.9	0.04	1.52	3.23
JULY -2017	2.6	27.4	<0.03	1.96	4.05
AUGUST -2017	2.7	27.3	<0.03	1.25	4.97
SEPTEMBER-2017	2.3	27.6	<0.03	1.64	2.21
OCTOBER -2017	3.7	26.7	<0.03	1.43	1.49
NOVEMBER -2017	2.9	25.8	<0.03	2.14	2.13
DECEMBER -2017	3.5	24.0	<0.03	2.68	3.42
=====	=====	=====	=====	=====	=====
Average	3.2	25.2	0.00	2.03	2.64

ND=not detected; NR=not required

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Ammonia-Nitrogen and Total Cyanides

ANNUAL 2017

Analyte:	Ammonia-N	Ammonia-N	Total Cyanide	Total Cyanide
MDL/ Units:	.3 MG/L	.3 MG/L	.005 MG/L	.005 MG/L
Source:	SB_INF_02	SB_OUTFALL_01	SB_INF_02	SB_OUTFALL_01
=====	=====	=====	=====	=====
JANUARY -2017	39.4	ND	ND	ND
FEBRUARY -2017	37.8	ND	ND	0.002
MARCH -2017	28.3	0.6	ND	ND
APRIL -2017	38.8	1.7	ND	ND
MAY -2017	34.4	ND	0.002	ND
JUNE -2017	39.1	ND	ND	0.003
JULY -2017	39.2	ND	<0.005	<0.005
AUGUST -2017	40.4	ND	<0.005	<0.005
SEPTEMBER-2017	35.2	ND	0.005	0.005
OCTOBER -2017	38.6	ND	<0.005	<0.005
NOVEMBER -2017	37.4	ND	<0.005	<0.005
DECEMBER -2017	35.6	ND	<0.005	<0.005
=====	=====	=====	=====	=====
Average:	37.0	0.2	0.001	0.001

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Trace Metals

Annual 2017

Analyte:	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic
MAX_MD_L Units:	23.8 UG/L	23.8 UG/L	2.44 UG/L	2.44 UG/L	1.84 UG/L	1.84 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						2800
JANUARY -2017	589	37.2	ND	ND	ND	ND
FEBRUARY -2017	619	45.8	3.35	2.57	1.43	0.48
MARCH -2017	913	43.7	3.10	2.93	1.78	ND
APRIL -2017	577	ND	ND	ND	1.01	0.59
MAY -2017	590	ND	ND	ND	1.01	0.39
JUNE -2017	668	45.8	ND	ND	1.15	0.66
JULY -2017	1170	50.8	3.15	ND	0.68	ND
AUGUST -2017	356	ND	ND	ND	ND	ND
SEPTEMBER-2017	481	23.9	1.09	0.77	ND	ND
OCTOBER -2017	623	172	1.45	0.66	ND	ND
NOVEMBER -2017	747	171	1.07	0.60	ND	ND
DECEMBER -2017	894	28.1	1.16	0.67	ND	ND
AVERAGE	686	51.5	1.20	0.68	0.59	0.18

Analyte:	Barium	Barium	Beryllium	Beryllium	Boron	Boron
MAX_MD_L Units:	.7 UG/L	.7 UG/L	.12 UG/L	.12 UG/L	1.4 UG/L	1.4 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						
JANUARY -2017	129	89.3	ND	ND	361	368
FEBRUARY -2017	106	24.5	ND	ND	356	372
MARCH -2017	93.6	56.4	ND	ND	360	323
APRIL -2017	74.0	46.7	ND	ND	370	386
MAY -2017	72.6	43.4	ND	ND	351	659
JUNE -2017	115	46.1	ND	ND	401	382
JULY -2017	89.3	41.6	ND	ND	360	352
AUGUST -2017	66.1	39.6	ND	ND	367	379
SEPTEMBER-2017	78.1	44.2	ND	ND	447	514
OCTOBER -2017	95.4	43.8	ND	ND	369	370
NOVEMBER -2017	72.9	38.1	ND	ND	497	465
DECEMBER -2017	79.2	45.0	ND	ND	354	360
AVERAGE	89.3	46.6	0.00	0.00	383	411

Analyte:	Cadmium	Cadmium	Chromium	Chromium	Cobalt	Cobalt
MAX_MD_L Units:	.26 UG/L	.26 UG/L	.54 UG/L	.54 UG/L	.24 UG/L	.24 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		48		760		
JANUARY -2017	ND	ND	3.25	0.78	0.84	0.53
FEBRUARY -2017	0.39	ND	12.9	1.48	1.33	0.82
MARCH -2017	ND	ND	3.00	0.90	1.01	0.63
APRIL -2017	ND	ND	2.62	1.04	0.81	0.51
MAY -2017	ND	ND	4.58	0.65	0.81	0.47
JUNE -2017	0.35	ND	5.35	0.62	1.07	0.56
JULY -2017	0.27	ND	3.89	0.83	1.35	0.63
AUGUST -2017	ND	ND	2.71	0.79	0.73	0.76
SEPTEMBER-2017	ND	ND	1.82	0.49	0.34	0.14
OCTOBER -2017	0.15	ND	3.24	0.64	0.51	0.21
NOVEMBER -2017	0.13	ND	1.78	0.36	0.41	0.15
DECEMBER -2017	0.14	ND	2.38	0.39	0.48	0.20
AVERAGE	0.12	0.00	3.96	0.75	0.81	0.47

ND= not detected; NR= not required

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Trace Metals

Annual 2017

Analyte:	Copper		Iron		Lead	
MAX_MDL Units:	2.16 UG/L	2.16 UG/L	17.1 UG/L	17.1 UG/L	1.68 UG/L	1.68 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	960				760	
JANUARY -2017	106	15.6	792	97.9	ND	ND
FEBRUARY -2017	103	5.49	12100	194	3.69	ND
MARCH -2017	76.4	15.3	883	116	2.04	ND
APRIL -2017	84.3	11.5	750	46.5	ND	ND
MAY -2017	96.3	10.4	884	37.3	1.72	ND
JUNE -2017	127	9.61	2560	32.3	4.07	2.53
JULY -2017	86.7	9.81	1110	60.4	ND	ND
AUGUST -2017	82.4	7.72	523	28.9	2.30	ND
SEPTEMBER-2017	85.4	8.66	595	48.2	1.36	0.18
OCTOBER -2017	95.0	8.58	727	67.6	1.81	0.33
NOVEMBER -2017	92.4	6.11	601	52.7	1.94	0.32
DECEMBER -2017	95.6	7.76	750	52.6	1.44	0.27
AVERAGE	94.2	9.71	1856	69.5	1.70	0.30

Analyte:	Manganese		Mercury		Molybdenum	
MAX_MDL Units:	.78 UG/L	.78 UG/L	.005 UG/L	.002 UG/L	.32 UG/L	.32 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:			15.0			
JANUARY -2017	115	33.6	0.104	0.003	8.21	4.11
FEBRUARY -2017	195	133	0.084	0.003	11.4	7.99
MARCH -2017	98.6	34.1	0.090	0.006	8.41	6.37
APRIL -2017	104	14.9	0.165	ND	6.59	4.27
MAY -2017	107	13.0	0.192	0.004	6.24	3.57
JUNE -2017	121	17.9	0.176	0.002	11.1	5.45
JULY -2017	102	53.1	0.126	0.003	6.15	3.10
AUGUST -2017	110	13.1	0.164	0.002	6.42	3.02
SEPTEMBER-2017	112	15.4	0.092	0.002	5.48	2.88
OCTOBER -2017	122	18.2	0.117	0.008	6.62	3.72
NOVEMBER -2017	110	29.2	0.063	0.004	5.29	2.39
DECEMBER -2017	139	59.6	0.107	0.006	6.44	3.56
AVERAGE	120	36.3	0.123	0.004	7.36	4.20

Analyte:	Nickel		Selenium		Silver	
MAX_MDL Units:	.53 UG/L	.53 UG/L	.662 UG/L	.662 UG/L	.73 UG/L	.73 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	1900		5700		250	
JANUARY -2017	4.66	2.96	1.79	0.86	ND	ND
FEBRUARY -2017	8.90	7.61	1.43	0.93	ND	ND
MARCH -2017	4.14	2.74	1.89	0.86	ND	ND
APRIL -2017	4.90	2.56	1.13	0.61	1.20	ND
MAY -2017	6.18	2.53	1.29	0.35	ND	ND
JUNE -2017	6.37	2.70	1.53	0.31	1.07	ND
JULY -2017	5.24	3.26	1.08	0.32	0.98	ND
AUGUST -2017	4.52	2.41	3.32	ND	ND	0.88
SEPTEMBER-2017	4.10	2.81	1.59	ND	0.07	ND
OCTOBER -2017	4.53	2.71	3.27	1.78	0.29	ND
NOVEMBER -2017	4.86	2.69	2.04	ND	0.10	ND
DECEMBER -2017	4.51	2.03	1.03	ND	0.19	ND
AVERAGE	5.24	3.08	1.78	0.50	0.33	0.07

ND= not detected; NR= not required

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Trace Metals

Annual 2017

Analyte:	Thallium	Thallium	Vanadium	Vanadium	Zinc	Zinc
MAX_MDL Units:	3.12 UG/L	3.12 UG/L	2.77 UG/L	2.77 UG/L	4.19 UG/L	4.19 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						6900
=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	ND	ND	2.68	ND	204	54.0
FEBRUARY -2017	ND	ND	3.32	0.72	200	19.4
MARCH -2017	ND	ND	6.38	3.36	163	55.9
APRIL -2017	ND	ND	2.72	1.59	174	57.9
MAY -2017	ND	ND	3.09	1.28	184	59.7
JUNE -2017	ND	ND	2.53	1.01	227	54.9
JULY -2017	ND	ND	3.18	1.03	210	57.7
AUGUST -2017	ND	ND	1.07	0.96	132	58.8
SEPTEMBER-2017	ND	ND	6.43	4.59	147	56.4
OCTOBER -2017	ND	ND	4.59	ND	179	54.4
NOVEMBER -2017	ND	ND	3.96	3.30	168	59.7
DECEMBER -2017	ND	ND	3.17	ND	149	41.2
=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.00	0.00	3.59	1.49	178	52.5

ND= not detected; NR= not required



SOUTH BAY WATER RECLAMATION PLANT  
Radioactivity  
Effluent to the Ocean (SB\_OUTFALL\_01)

Analyzed by: FGL Environmental Agricultural Analytical

Annual 2017

Month		Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====
JANUARY	-2017	4.7 ± 2.7	6.5 ± 1.9
FEBRUARY	-2017	4.3 ± 1.9	10.6 ± 1.5
MARCH	-2017	5.5 ± 1.5	6.8 ± 1.2
APRIL	-2017	4.7 ± 2.3	6.7 ± 1.6
MAY	-2017	4.6 ± 1.7	8.0 ± 1.5
JUNE	-2017	6.0 ± 1.9	9.2 ± 1.6
JULY	-2017	2.8 ± 1.4	8.1 ± 1.4
AUGUST	-2017	3.9 ± 1.5	9.9 ± 1.3
SEPTEMBER	-2017	5.0 ± 2.2	8.2 ± 1.6
OCTOBER	-2017	2.2 ± 1.5	14.6 ± 2.1
NOVEMBER	-2017	4.4 ± 1.8	8.6 ± 1.5
DECEMBER	-2017	2.7 ± 1.9	11.0 ± 2.0
=====	=====	=====	=====
AVERAGE		4.1 ± 1.8	9.0 ± 1.6

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

CHLORINATED PESTICIDE ANALYSIS, EPA Method 608 (WITH ADDITIONS)

ANNUAL 2017

Source:			INFLUENT				
Date:			FEB	MAY	AUG	OCT^	
Analyte	MDL	Units					Avg
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin	9.4	NG/L	ND	ND	ND	ND*	ND
Dieldrin	11	NG/L	ND	ND	ND	ND*	ND
BHC, Alpha isomer	15	NG/L	ND	ND	ND	ND*	ND
BHC, Beta isomer	50	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	100	NG/L	ND	ND	ND	ND	ND
BHC, Delta isomer	38	NG/L	ND	ND	ND	ND*	ND
p,p-DDD	16	NG/L	ND	ND	ND	ND*	ND
p,p-DDE	10	NG/L	ND	ND	ND	ND*	ND
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND
o,p-DDD	10	NG/L	ND	ND	ND	ND	ND
o,p-DDE	20	NG/L	ND	ND	ND	ND	ND
o,p-DDT	5	NG/L	ND	ND	ND	ND	ND
Heptachlor	50	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	50	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	45	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	45	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA
Oxychlordane	1.21	NG/L	ND	ND	ND	NA	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	11	NG/L	ND	ND	ND	ND*	ND
Beta Endosulfan	17	NG/L	ND	ND	ND	ND*	ND
Endosulfan Sulfate	460	NG/L	ND	ND	ND	ND*	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	73	NG/L	ND	ND	ND	ND	ND
Mirex	5	NG/L	ND	ND	ND	ND	ND
Methoxychlor	460	NG/L	ND	ND	ND	NA	ND
Toxaphene	2500	NG/L	ND	ND	ND	ND	ND
PCB 1016	2500	NG/L	ND	ND	ND	ND	ND
PCB 1221	2500	NG/L	ND	ND	ND	ND	ND
PCB 1232	2100	NG/L	ND	ND	ND	ND	ND
PCB 1242	2000	NG/L	ND	ND	ND	ND	ND
PCB 1248	1400	NG/L	ND	ND	ND	ND	ND
PCB 1254	2500	NG/L	ND	ND	ND	ND	ND
PCB 1260	2500	NG/L	ND	ND	ND	ND	ND
PCB 1262	500	NG/L	ND	ND	ND	NA	ND
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	11	NG/L	0	0	0	0*	0
Hexachlorocyclohexanes	100	NG/L	0	0	0	0	0
DDT and derivatives	50	NG/L	0	0	0	0	0
Chlordane + related cmpds.	45	NG/L	0	0	0	0	0
Polychlorinated biphenyls	2500	NG/L	0	0	0	0	0
Endosulfans	460	NG/L	0	0	0	0*	0
=====	=====	=====	=====	=====	=====	=====	=====
Heptachlors	50	NG/L	0	0	0	0	0
=====	=====	=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	2500	NG/L	0	0	0	0	0

\*= One or more quality control criteria not met; value not used in average calculations.

ND= not detected; NA= not analyzed

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

^= Analyzed by: BABCOCK Laboratories, Inc.

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: EFFLUENT (SB\_OUTFALL\_01)

CHLORINATED PESTICIDE ANALYSIS, EPA Method 608 (WITH ADDITIONS)

ANNUAL 2017

Source:			EFFLUENT												
Date:			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP^	OCT^	NOV	DEC	Avg
Analyte	MDL	Units													
=====															
Aldrin	9.4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	11	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	15	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	38	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	16	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND
p,p-DDE	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
o,p-DDE	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
o,p-DDT	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Heptachlor	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	45	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	45	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	1.21	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Alpha Endosulfan	11	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	17	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND
Endosulfan Sulfate	460	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	73	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Methoxychlor	460	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Toxaphene	2500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	2500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	2500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	2100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	1400	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	500	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
=====															
Aldrin + Dieldrin	11	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	50	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	45	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	2500	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	460	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Heptachlors	50	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Chlorinated Hydrocarbons	2500	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0

\*= One or more quality control criteria not met; value not used in average calculations.

ND= not detected; NA= not analyzed

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

^= Analyzed by: BABCOCK Laboratories, Inc.

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Organophosphorus Pesticides - EPA Method 614/622 (with additions)

ANNUAL 2017

Source:		Influent	Influent	Effluent	Effluent
Date:		02-MAY-2017	03-OCT-2017	02-MAY-2017	03-OCT-2017
Analyte	MDL Units	P936651	P973142	P936656	P973147
Demeton O	.01 UG/L	ND	ND	ND	ND
Demeton S	.04 UG/L	ND	ND	ND	ND
Diazinon	.02 UG/L	ND	ND	ND	ND
Guthion	.03 UG/L	ND	ND	ND	ND
Malathion	.02 UG/L	DNQ0.07	ND	ND	ND
Parathion	.01 UG/L	ND	ND	ND	ND
Dichlorvos	.02 UG/L	2.30	ND	ND	ND
Disulfoton	.01 UG/L	ND	ND	ND	ND
Stirophos	.01 UG/L	ND	ND	ND	ND
Coumaphos	.05 UG/L	ND	ND	ND	ND
Chlorpyrifos	.02 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.03 UG/L	0.00	0.00	0.00	0.00
Demeton -O, -S	.04 UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.05 UG/L	2.30	0.00	0.00	0.00

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Tributyl Tin Analysis

Annual 2017

Source:		INFLUENT			
Date:		FEB	MAY	AUG	OCT
Analyte	MDL Units				Average
Dibutyltin	.0092 UG/L	ND	ND	ND	ND
Monobutyltin	.013 UG/L	ND	ND	ND	ND
Tributyltin	.0045 UG/L	ND	ND	ND	ND

Source:		EFFLUENT			
Date:		FEB	MAY	AUG	OCT
Analyte	MDL Units				Average
Dibutyltin	.0092 UG/L	ND	ND	ND	ND
Monobutyltin	.013 UG/L	ND	ND	ND	ND
Tributyltin	.0045 UG/L	ND	ND	ND	ND

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

ANNUAL 2017

Source:			INFLUENT				
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Avg
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	49.3	33.0	47.5	51.6	45.4
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	49.3	33.0	47.5	51.6	45.4
Total Phenols	2.16	UG/L	49.3	33.0	47.5	51.6	45.4

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	133	81.2	92.5	93.3	100
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

Source:			EFFLUENT											
Date:			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Analyte	MDL	Units												Avg
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

\*= Recovery of compound in internal check and matrix spike sample outside method acceptance limits; value is not used in average calculations.

ND= not detected; NA= not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02)

Priority Pollutants Base/Neutral Compounds, EPA Method 625

ANNUAL 2017

Source:			INFLUENT				
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Avg
=====	=====	=====	=====	=====	=====	=====	=====
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	5.0	3.7	ND	6.3	3.8
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND*	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	16.3	ND	9.3	13.9	9.9
Di-n-octyl phthalate	1	UG/L	ND	2.4	ND	ND	0.6
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Base/Neutral Compounds	8.96	UG/L	21.3	6.1	9.3	20.2	14.2

Additional analytes determined

=====	=====	=====	=====	=====	=====	=====
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND

\*= Recovery of compound in internal check and matrix spike sample outside method acceptance limits; value is not used in average calculations.

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: EFFLUENT (SB\_OUTFALL\_01)

Priority Pollutants Base/Neutral Compounds, EPA Method 625

ANNUAL 2017

Source:			EFFLUENT				
Date:			JAN	MAY	AUG	OCT	
Analyte	MDL	Units					Avg
=====	=====	=====	=====	=====	=====	=====	=====
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND*	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	9.87	ND	ND	<8.96	0.0
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Base/Neutral Compounds	8.96	UG/L	9.87	0.0	0.0	0.0	0.0

Additional analytes determined

=====	=====	=====	=====	=====	=====	=====
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND

\*= Recovery of compound in internal check and matrix spike sample outside method acceptance limits; value is not used in average calculations.

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

Priority Pollutants Purgeable Compounds, EPA Method 624 & 8260B

Annual 2017

Source:			INFLUENT				
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Average
=====	=====	=====	=====	=====	=====	=====	=====
Dichlorodifluoromethane	2.39	UG/L	ND	ND	ND	ND	ND
Chloromethane	.19	UG/L	ND	DNQ0.3	ND	ND	0.00
Vinyl chloride	.24	UG/L	ND	ND	ND	ND	ND
Bromomethane	.22	UG/L	ND	ND	DNQ0.4*DNQ0.3*	ND	ND
Chloroethane	.24	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.26	UG/L	ND	ND	ND	ND	ND
Acrolein	.94	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.28	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.37	UG/L	2.49	DNQ0.9DNQ0.8	*		0.63
trans-1,2-dichloroethene	.34	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethene	.37	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.48	UG/L	ND	ND	ND	ND	ND
Chloroform	.3	UG/L	DNQ1.4	2.1	DNQ1.2	3.1	1.3
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.37	UG/L	ND	ND	ND	ND	ND
1,2-Dichloroethane	.32	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.43	UG/L	ND	ND	ND	ND	ND
1,2-Dichloropropane	.43	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.37	UG/L	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	.25	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.38	UG/L	ND	ND	ND	ND	ND
Toluene	.37	UG/L	DNQ1.4	ND	DNQ0.5DNQ0.9	0.00	0.00
trans-1,3-dichloropropene	.35	UG/L	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.32	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	.4	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.34	UG/L	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.41	UG/L	ND	ND	ND	ND	ND
Bromoform	.36	UG/L	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	.33	UG/L	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.47	UG/L	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.46	UG/L	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.36	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Halomethane Purgeable Cmpnds	.36	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Dichlorobenzenes	.47	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Chloromethanes	.4	UG/L	2.49	2.1	0.0	3.1	1.93
=====	=====	=====	=====	=====	=====	=====	=====
Purgeable Compounds	.94	UG/L	2.49	2.1	0.0	3.1	1.93

Additional analytes determined

=====	=====	=====	=====	=====	=====	=====	=====
Methyl Iodide	.32	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.37	UG/L	1.59	1.10	1.51	2.30	1.63
Acetone	6.74	UG/L	119	123	268	174	171
Allyl chloride	.44	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.36	UG/L	ND	ND	DNQ0.4DNQ0.7	0.30	0.30
Chloroprene	.09	UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.41	UG/L	ND	ND	ND	ND	ND
2-Butanone	5.56	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.32	UG/L	ND	ND	ND	ND	ND
2-Nitropropane	.49	UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	.39	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.85	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.34	UG/L	DNQ0.4	ND	ND	ND	0.12
Isopropylbenzene	.41	UG/L	ND	ND	ND	ND	ND
Styrene	.38	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	.65	UG/L	ND	ND	ND	ND	ND

\*= Method blank value above the MDL; result not used in average calculations.

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.



SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: EFFLUENT (SB\_OUTFALL\_01)

Priority Pollutants Purgeable Compounds, EPA Method 624 & 8260B

Annual 2017

Source:		EFFLUENT					
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Average
Dichlorodifluoromethane	2.39	UG/L	ND	ND	ND	ND	ND
Chloromethane	.19	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.24	UG/L	ND	ND	ND	ND	ND
Bromomethane	.22	UG/L	DNQ0.27*	ND	DNQ0.44*	DNQ0.37*	ND
Chloroethane	.24	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.26	UG/L	ND	ND	ND	ND	ND
Acrolein	.94	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.28	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.37	UG/L	DNQ0.6	DNQ0.3	ND	DNQ0.48*	0.00
trans-1,2-dichloroethene	.34	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethene	.37	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.48	UG/L	ND	ND	ND	ND	ND
Chloroform	.3	UG/L	DNQ0.7	DNQ0.9	DNQ0.5	DNQ0.9	0.0
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.37	UG/L	ND	ND	ND	ND	ND
1,2-Dichloroethane	.32	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.43	UG/L	ND	ND	ND	ND	ND
1,2-Dichloropropane	.43	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.37	UG/L	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	.25	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.38	UG/L	ND	ND	ND	ND	ND
Toluene	.37	UG/L	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.35	UG/L	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.32	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	.4	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.34	UG/L	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.41	UG/L	ND	ND	ND	ND	ND
Bromoform	.36	UG/L	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	.33	UG/L	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.47	UG/L	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.46	UG/L	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.36	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.36	UG/L	0.0	0.0	0.0	0.0	0.0
Total Dichlorobenzenes	.47	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.4	UG/L	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	.94	UG/L	0.0	0.0	0.0	0.0	0.0

Additional analytes determined

Methyl Iodide	.32	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.37	UG/L	ND	ND	ND	ND	ND
Acetone	6.74	UG/L	ND	ND	ND	ND	ND
Allyl chloride	.44	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.36	UG/L	ND	ND	ND	ND	ND
Chloroprene	.09	UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.41	UG/L	ND	ND	ND	ND	ND
2-Butanone	5.56	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.32	UG/L	ND	ND	ND	ND	ND
2-Nitropropane	.49	UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	.39	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.85	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.34	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.41	UG/L	ND	ND	ND	ND	ND
Styrene	.38	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	.65	UG/L	ND	ND	ND	ND	ND

\*= Method blank value above the MDL; result not used in average calculations.

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

Dioxin and Furan Analysis

Annual 2017

Source:				INF	INF	INF	INF
Date:				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P914905	P919279	P925886	P932507
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	DNQ4.88	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	25.1	DNQ20.1	DNQ16.0	DNQ18.6
octa CDD	1.2	PG/L	0.001	120	120	100	150
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	DNQ2.19	DNQ3.03
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	DNQ2.01	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	DNQ2.24	ND	DNQ1.89	DNQ3.05
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ5.66	DNQ6.71	DNQ5.55	DNQ6.73

Source:				INF	INF	INF	INF
Date:				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P936651	P946529	P957607	P959798
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	DNQ7.69	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	DNQ3.09	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	DNQ8.87	DNQ7.58	DNQ13.7
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	DNQ6.89	ND	DNQ4.65
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	33.5	131	54.1	112
octa CDD	1.2	PG/L	0.001	180	2500	240	320
2,3,7,8-tetra CDF	.307	PG/L	0.100	DNQ2.41	ND	ND	DNQ3.39
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	DNQ2.06
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	DNQ1.74
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	DNQ1.4	DNQ12.5	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	DNQ3.87	DNQ1.87	DNQ9.96
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	DNQ1.14	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	DNQ14.4	DNQ7.8	DNQ9.11
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ7.92	DNQ21.0	DNQ13.2	DNQ14.5

Source:				INF	INF	INF	INF
Date:				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P972158	P973142	P982873	P989745
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	DNQ5.14	DNQ2.87	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	DNQ12.4	74.1	55.5	DNQ20.8
octa CDD	1.2	PG/L	0.001	83.0	260	410	130
2,3,7,8-tetra CDF	.307	PG/L	0.100	DNQ1.39	DNQ2.64	ND	DNQ1.1
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	DNQ1.41	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	DNQ1.82	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	DNQ1.32	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	DNQ3.47	DNQ4.21	DNQ2.9	DNQ2.42
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ5.47	DNQ6.66	ND	DNQ4.99

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

Dioxin and Furan Analysis

Annual 2017

Source:				EFF	EFF	EFF	EFF
Date:				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P914909	P919284	P925890	P932511
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.2	PG/L	0.001	ND	ND	DNQ6.86	ND
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P936656	P946533	P957611	P959803
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	ND	ND	DNQ2.81	ND
octa CDD	1.2	PG/L	0.001	ND	DNQ5.57	DNQ7.08	ND
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P972162	P973147	P982877	P989746
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	DNQ2.99	ND	ND	ND
octa CDD	1.2	PG/L	0.001	DNQ6.08	DNQ5.22	ND	DNQ5.06
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.  
Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

Dioxin and Furan Analysis

Annual 2017

Source:				INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
Date:				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P914905	P919279	P925886	P932507
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	DNQ0.488	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	0.251	DNQ0.201	DNQ0.16	DNQ0.186
octa CDD	1.2	PG/L	0.001	0.12	0.12	0.1	0.15
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	DNQ0.219	DNQ0.303
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	DNQ1.005	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	DNQ0.022	ND	DNQ0.019	DNQ0.031
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ0.006	DNQ0.007	DNQ0.006	DNQ0.007

Source:				INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
Date:				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P936651	P946529	P957607	P959798
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	DNQ3.845	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	DNQ0.309	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	DNQ0.887	DNQ0.758	DNQ1.37
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	DNQ0.689	ND	DNQ0.465
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	0.335	1.31	0.541	1.12
octa CDD	1.2	PG/L	0.001	0.18	2.5	0.24	0.32
2,3,7,8-tetra CDF	.307	PG/L	0.100	DNQ0.241	ND	ND	DNQ0.339
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	DNQ0.103
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	DNQ0.87
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	DNQ0.14	DNQ1.25	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	DNQ0.387	DNQ0.187	DNQ0.996
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	DNQ0.114	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	DNQ0.144	DNQ0.078	DNQ0.091
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ0.008	DNQ0.021	DNQ0.013	DNQ0.015

Source:				INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
Date:				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P972158	P973142	P982873	P989745
=====	=====	=====	=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	DNQ0.514	DNQ0.287	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	DNQ0.124	0.741	0.555	DNQ0.208
octa CDD	1.2	PG/L	0.001	0.083	0.26	0.41	0.13
2,3,7,8-tetra CDF	.307	PG/L	0.100	DNQ0.139	DNQ0.264	ND	DNQ0.11
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	DNQ0.071	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	DNQ0.91	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	DNQ0.132	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	DNQ0.035	DNQ0.042	DNQ0.029	DNQ0.024
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	DNQ0.005	DNQ0.007	ND	DNQ0.005

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT  
SOURCE: INFLUENT (SB\_INF\_02)

Dioxin and Furan Analysis

Annual 2017

Effluent Limit (TCDD): 0.37 pg/L (30-day Average)

Source:				EFF TCCD JAN P914909	EFF TCCD FEB P919284	EFF TCCD MAR P925890	EFF TCCD APR P932511
Date:	MDL	Units	Equiv				
Analyte							
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.2	PG/L	0.001	ND	ND	DNQ0.007	ND
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

Source:				EFF TCCD MAY P936656	EFF TCCD JUN P946533	EFF TCCD JUL P957611	EFF TCCD AUG P959803
Date:	MDL	Units	Equiv				
Analyte							
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	ND	ND	DNQ0.028	ND
octa CDD	1.2	PG/L	0.001	ND	DNQ0.006	DNQ0.007	ND
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

Source:				EFF TCCD SEP P972162	EFF TCCD OCT P973147	EFF TCCD NOV P982877	EFF TCCD DEC P989746
Date:	MDL	Units	Equiv				
Analyte							
2,3,7,8-tetra CDD	.316	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.607	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDD	.808	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.891	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.756	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.857	PG/L	0.010	DNQ0.03	ND	ND	ND
octa CDD	1.2	PG/L	0.001	DNQ0.006	DNQ0.005	ND	DNQ0.005
2,3,7,8-tetra CDF	.307	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.421	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.431	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.486	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.521	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.663	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.556	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.489	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.69	PG/L	0.010	ND	ND	ND	ND
octa CDF	1.7	PG/L	0.001	ND	ND	ND	ND

ND= not detected; Above are permit required CDD/CDF isomers.

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Cations

ANNUAL 2017

Analyte:		Calcium		Magnesium		Lithium	
MDL/ Units:		.134 mg/L		.132 mg/L		.01 mg/L	
Source:		INF	EFF	INF	EFF	INF	EFF
=====		=====	=====	=====	=====	=====	=====
JANUARY	-2017	81.9	79.4	29.6	28.4	0.046	0.045
FEBRUARY	-2017	74.4	77.7	28.4	28.9	0.041	0.035
MARCH	-2017	77.3	68.6	33.2	29.6	0.031	0.025^
APRIL	-2017	60.0	62.8	23.3	23.3	0.024	0.021
MAY	-2017	60.4	56.1	29.4	23.6	0.020*	0.018*
JUNE	-2017	55.1	58.5	28.1	27.5	0.026^	0.025^
JULY	-2017	55.4	56.8	26.0	25.5	0.022	0.023
AUGUST	-2017	52.9	54.0	24.3	23.9	0.022^	0.015
SEPTEMBER	-2017	57.2	59.0	27.4	27.3	0.021	0.020
OCTOBER	-2017	61.5	61.8	29.7	27.8	0.018	0.020
NOVEMBER	-2017	59.8	60.1	30.7	30.3	0.018	0.018
DECEMBER	-2017	60.2	63.8	31.6	31.9	0.018	0.015
=====		=====	=====	=====	=====	=====	=====
Average:		63.0	63.2	28.5	27.3	0.027	0.024

Analyte:		Sodium		Potassium	
MDL/ Units:		1.89 mg/L		.84 mg/L	
Source:		INF	EFF	INF	EFF
=====		=====	=====	=====	=====
JANUARY	-2017	189	198	17.8	16.1
FEBRUARY	-2017	211	194	18.5	16.7
MARCH	-2017	218	199	16.9	14.8
APRIL	-2017	182	190	18.7	16.7
MAY	-2017	235	192	23.4	18.7
JUNE	-2017	204	204	19.9	18.1
JULY	-2017	196	208	19.8	18.6
AUGUST	-2017	193	201	19.1	17.6
SEPTEMBER	-2017	209	220	19.5	18.9
OCTOBER	-2017	227	220	20.7	17.9
NOVEMBER	-2017	212	226	21.6	21.5
DECEMBER	-2017	224	229	22.0	20.2
=====		=====	=====	=====	=====
Average:		208	207	19.8	18.0

\*= Relative percent difference of sample duplicates outside method acceptance criteria; value is not used in average calculations.

^= Method blank value above the IDL; sample result not included in average calculations.

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT  
SAMPLE SOURCE: INFLUENT (SB\_INF\_02) AND EFFLUENT (SB\_OUTFALL\_01)

Anions

ANNUAL 2017

Analyte:	Bromide	Bromide	Chloride	Chloride	Fluoride	Fluoride
MDL:	.1	.1	7	7	.05	.05
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Source:	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	0.5	0.3	258	251	0.36	0.43
FEBRUARY -2017	0.4	0.3	256	272	0.44	0.49
MARCH -2017	0.6	0.4	284	249	0.45	0.54
APRIL -2017	0.5	0.4	241	242	0.40	0.52
MAY -2017	0.6	0.5	252	242	0.47	0.45
JUNE -2017	0.6	0.5	264	274	0.49	0.56
JULY -2017	0.5	0.4	242	267	0.46	0.57
AUGUST -2017	0.5	0.5	262	268	0.49	0.60
SEPTEMBER-2017	0.4	0.5	267	279	0.47	0.60
OCTOBER -2017	0.4	0.4	282	292	0.50	0.59
NOVEMBER -2017	0.3	0.4	275	275	0.48	0.60
DECEMBER -2017	0.9	0.7	282	291	0.36	0.59
=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.5	0.4	264	267	0.45	0.55

Analyte:	Nitrate	Nitrate	O-Phosphate	O-Phosphate	Sulfate	Sulfate
MDL:	.04	.04	.2	.2	9	9
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Source:	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
=====	=====	=====	=====	=====	=====	=====
JANUARY -2017	0.14	32.3	8.6	3.3	181	242
FEBRUARY -2017	<0.04	38.6	10.1	0.6	181	227
MARCH -2017	0.05	50.2	10.0	10.3	145	179
APRIL -2017	0.06	39.0	11.8	1.9	103	149
MAY -2017	0.13	44.5	11.1	1.4	98	127
JUNE -2017	0.06	38.2	10.7	3.2	102	143
JULY -2017	0.10	35.5	11.3	4.7	88	123
AUGUST -2017	1.09	42.1	10.8	7.0	90	118
SEPTEMBER-2017	0.09	39.8	10.3	9.1	99	130
OCTOBER -2017	3.75	55.7	8.7	4.9	104	132
NOVEMBER -2017	2.32	41.0	10.1	9.3	103	125
DECEMBER -2017	2.44	41.7	11.7	11.5	104	135
=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.85	41.6	10.4	5.6	117	153

ND= not detected

## **B. Upset, Interference, and Pass-through**

No incidents of interference with the collection system, pump stations, or treatment plant operations were reported.

## **C. Biosolids Disposal Methods**

Biosolids from the SBWRP is conveyed to Point Loma, and from there to the Miramar Biosolids Center for processing and disposal in combination with biosolids from throughout the Metropolitan Sewerage System service area. See details of biosolids disposal locations and beneficial uses on Chapter 5 Section 5.5 of this year's Annual Report for the Point Loma POTW, NPDES Permit No. CA 0107409.

## **D. Other Concerns**

There are no other concerns pertaining to the administration of the pretreatment program or control of industrial contributions to the headworks loadings at the SBWRP at this time.