



February 27, 2015

THE CITY OF SAN DIEGO

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

Attention: Pretreatment Coordinator

Dear Mr. Gibson:

Subject: Board Order No. R9-2013-0006 NPDES Permit No. CA0109045
CY2014 Pretreatment Annual Report for the South Bay Water Reclamation Plant

The City of San Diego South Bay Water Reclamation Plant Pretreatment Program Annual Report for calendar year 2014, due March 1, 2015, 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 EW Blom Pt. 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 meet with City staff to discuss the report in detail, please contact Barbara Sharatz, of my staff, at (858) 654-4106.

Sincerely,

Peter S. Vroom, Ph.D.
Public Utilities Deputy Director
Environmental Monitoring and Technical Services Division

BLS

cc: Amelia Whitson, Pretreatment Coordinator, EPA Region IX
Regulatory Unit, Water Quality Div., State Water Resources Control Board
Halla Razak, Director of Public Utilities, City of San Diego
Barbara Sharatz, Pretreatment Program Manager, City of San Diego
File



POTW PRETREATMENT ANNUAL REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name: City of San Diego
Report Date: March 1, 2015
Period Covered by This Report: January 1, 2014 to December 31, 2014
Period Covered by Previous Report: January 1, 2013 to December 31, 2013

Name of Wastewater Treatment Plant(s)

NPDES Permit Number

South Bay Water Reclamation Plant

CA 0109045

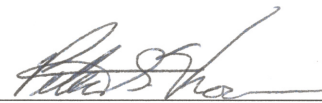
Person to contact concerning information contained in this report:

Name: Barbara Sharatz
Title: Industrial Wastewater Control Program Manager
Mailing Address: 9192 Topaz Way, MS 901D
San Diego, CA 92123-1119
Telephone No.: (858) 654-4106

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.

2-27-2015

Date



Peter S. Vroom, Ph.D.

Public Utilities Deputy Director,
Environmental Monitoring and
Technical Services Division
Title

BLS:

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: 01/01/14(PSSD) 12/31/14(PSED)
Start Date End Date

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: 25 (FENF)

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

Number of Significant Industrial Users With Significant Violations Published: 0 (SVPU)

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



THE CITY OF SAN DIEGO

SOUTH BAY WATER RECLAMATION PLANT & OCEAN OUTFALL ANNUAL PRETREATMENT REPORT

NPDES PERMIT No. CA 0109045
SDRWQCB ORDER No. R9-2013-0006

JANUARY 1 – DECEMBER 31, 2014



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



CY2014 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 22.3 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. 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 International Wastewater Treatment Plant (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, direct filtration with conventional deep bed mono-media filters, backwash facilities, and disinfection using ultraviolet light. The City is in the process of moving 2 EDR units from the North City Water Reclamation Plant to the SBWRP in order to provide for TDS and Chloride removal; these units are anticipated to begin operations by August 2015. Sludge processing is handled at the Point Loma Wastewater Treatment plant (PLWWTP) and the Metropolitan Biosolids Center. Solids from the SBWRP are pumped to the PLWWTP through the South Metro Interceptor.

The SBWRP began operations in CY2002, 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 Point Loma plant, 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 PLWWTP via the South Metro

Interceptor, facilities tributary to the GAP and ORPS are included in Annual Pretreatment Reports for both plants.

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 Metropolitan Wastewater Department of San Diego 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 Two and Three of the CY2014 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045.

C. Pretreatment Program Changes

During CY2014, the program made the following significant changes:

In addition to the facility-specific discharge limit of 2000 mg/L TDS applied and enforced at the Otay Mesa Energy Center, the program began including the following interim local discharge goals in permits as they are issued or renewed: 1200 mg/L goal for Total Dissolved Solids at non-food manufacturing SIUs, and 1200 mg/L goal Total Fixed Dissolved Solids at food manufacturing SIUs. If an industry exceeds the TDS or TFDS goal, they are encouraged to identify sources of TDS / TFDS and evaluate possible measures to reduce the concentration in their discharge to sewer tributary to the SBWRP. The program also began adding a Chloride action level of 230 mg/L; if a facility exceeds the Chloride action level, they are required to divert self-regenerating water softener concentrated brine regenerant away from the sewer system tributary to the SBWRP. In FY2014, the program applied for and received approval from the Regional Water Quality Control Board to apply the current 500 mg/L Oil and Grease local limit as an instantaneous limit, rather than as a daily maximum limit; this application of the limit provides improved protection of the collection system and the treatment plant, which is subject to an instantaneous limit for Oil and Grease. There were no other 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 of the CY2014 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details.

III. Permit Inventory as of December 31, 2014

A. List of Deletions, Additions, and Name Changes of Significant Industrial Users during CY2014

SIU FACILITIES THAT BECAME SIUs IN 2014						Note: UT; = Extracted Groundwater Permit
Facility	Name	Class	Permit	Date	Comments	
12-0275	Jensen Meat Company	3	01-A	13-Feb-14	New meat processor	
12-0283	Spectex Inc dba Specialty Textile Services	3	01-A	01-Aug-14	New commercial Laundry	
12-0285	General Services Admin -SYLPOE	3	01-A	21-May-14	Short term permit for discharge of biosolids from San Ysidro Port of Entry on-site reclamation plant.	
SIU FACILITIES THAT REPORTED A NAME CHANGE IN 2014						
IU #	TO	Class	Permit	Date	FROM	
12-0220	Circle Foods LLC	3	03-A	01-Oct-14	Southwest Products LLC dba Circle Foods	
FORMER SIU FACILITIES THAT BECAME NON-SIUs IN 2014						
Facility	Name	Class	Permit	Date	Comments	
NONE						
SIU FACILITIES INACTIVATED IN 2014						
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	391	5	13,113	9	331,214	18	89	344,718	4	94
13	1	913	7	8,126	2	6,711	15	25	15,750	0	57
36	1	43,032	0	0	0	0	0	1	43,032	0	1
Total	5	44,336	12	21,239	11	337,925	33	115	403,500	4	152

B. Baseline Monitoring Reports Requested or Received in CY2014

Facility Name	Facility #	BMR Requested	BMR Received
NONE			

B.1 Facilities Operating under a Baseline Monitoring Report CY2014

Facility Name	Facility #	BMR Received
AP Precision Metals	12-0144	17-Apr-2001
Doncasters GCE Industries	13-0115	16-May-2002
Emerald Textiles LLC	12-0065	21-Apr-1999
Harcos Precision Metals Inc	12-0244	17-Jun-2010
Heinz Frozen Foods	12-0154	30-Aug-2002
Otay Mesa Energy Center LLC	36-0001	20-Jun-2007
Spec-Built Systems Inc	12-0202	28-Jun-2005

C. 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>
12-0038 04-B	RJ Donovan Correctional Facility	48,948	100	Prison Sewer Main	Local	133		1 2 3	GREASE GRIND SCREEN
12-0065 03-C	Emerald Textiles LLC	67,703	110	Commercial Laundry	Local	133		1 2 3	LINT SETTLE HAUL
12-0144 04-A	AP Precision Metals	75	110	Metal Coating (Iron Phosphating)	Federal	433	.17	1	SETTLE
12-0154 03-B	Heinz Frozen Foods	62,411	110	Food Manufacturing	Local	137		1 2 3 4 5	EQUAL SCREEN DAF+C GREASE HAUL
12-0202 03-A	Spec-Built Systems Inc	30	110	Iron Phosphating	Federal	433	.17	1 2 3	SETTLE RECYL PH
12-0220 04-A	Southwest Products LLC dba Circle Foods	99,222	110	Food manufacturing	Local	137		1 2 3 4	EQUAL SCREEN DAF+C SD-FP
12-0244 01-C	Harcon Precision Metals Inc	286	110	Chemical conversion coating & water Jet	Federal	433	.17	1 2 3 4 5	PH MIXER SETTLE HAUL EVAP
12-0275 01-B	Jensen Meat Company Inc	20,076	110	Meat processing, cleaning/sanitizing	Local	137		1 2 3 4 5	SCREEN ELBOW SETTLE HAUL DIVRTA
12-0283 01-A	Spectex Inc dba Specialty Textile Services	19,388	110	Commerical Laundry	Local	133		1 2 3 4	SETTLE LINT UF HAUL
12-0285 01-A	General Services Administration - SYLPOE	1,470	100	Sewer Main	Local			1 2 3	ELBOW SETTLE SCREEN
			110	Waste activated sludge	Local			1 2 3 4 5	SCREEN BIO-AS UF UV HAUL

C. (cont.) 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 01-A	General Services Administration - SYLPOE	1,470	110	Untreated wastewater	Local			6	OZONE
			120	Treated wastewater	Local				
13-0115 05-A	Doncasters GCE Industries	913	200	Bldg 2 Lateral, 1887 Nirvana Av	Local			1	ZERO
			300	Bldg 3 Lateral, 757 Main St	Local	130		2	HAUL
						433	.17	1	ERU+1
								2	HAUL
			330	Dye Pen / Vibra Clean	Federal	433	.17	1	SETTLE
								2	IX
								3	FILT-O
			410	Dye Pen / Water Jet Cutting	Federal	433	.17	1	SETTLE
								2	IX
								3	FILT-O
								4	O/W
								5	HAUL
36-0001 02-A	Otay Mesa Energy Center LLC	43,032	110	WetSac blowdown + OWS	Federal	423	.17	1	SETTLE
								2	PH
			120	PCB zero discharge	Federal	423	.17	1	ZERO
			140	Turbine washing	Federal	423	.17	1	SETTLE

SIUs: 12

D. SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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<i>Facility</i>	<i>Pmt Name</i>	<i>Address</i>	<i>Conn</i>	<i>Total IW</i> <i>(gpd)</i>	<i>Parmcode</i>	<i>City</i>	<i>Self</i>	<i>Cat</i>	<i>Period</i>	<i>Lower</i>	<i>Upper</i>	<i>Units</i>	
						<i>freq</i>	<i>freq</i>			<i>Limit</i>	<i>Limit</i>		
12-0038	04-B	RJ Donovan Correctional Facility	480 Alta Rd, San Diego	100	48,948	OIL/GREASE PH	H H	H L	DM DM		500 12.5	mg/L pH	
12-0065	03-C	Emerald Textiles LLC	1725 Dornoch Ct, San Diego	110	67,678	OIL/GREASE PH	Q Q	Q L	DM DM	5	500 12.5	mg/L pH	
12-0144	04-A	AP Precision Metals	1215 30th St, San Diego	110	75	CADMIUM	Q	Q	F	DM	.11	mg/L	
						CHROMIUM	Q	Q	F	DM	.07	mg/L	
									MO		2.77	mg/L	
						COPPER	Q	Q	F	DM	1.71	mg/L	
									MO		3.38	mg/L	
						CYANIDE(T)	Q	Q	F	DM	2.07	mg/L	
									MO		1.2	mg/L	
						LEAD	Q	Q	F	DM	.65	mg/L	
									MO		.69	mg/L	
						NICKEL	Q	Q	F	DM	.43	mg/L	
									MO		3.98	mg/L	
						PH	Q	Q	L	DM	2.38	mg/L	
						SILVER	Q	Q	F	DM	5	12.5	pH
									MO		.43	mg/L	
						TTO(413+433)-P	A	Q	F	DM	.24	mg/L	
						ZINC	Q	Q	F	DM	2130	ug/L	
									MO		2.61	mg/L	
									MO		1.48	mg/L	
12-0154	03-B	Heinz Frozen Foods	7878 Airway Rd, San Diego	110	62,361	CHROMIUM	Q	Q	L	DM	5	mg/L	
						OIL/GREASE	H	M	L	DM		500	mg/L
						PH	H	M	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TEMP	H	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	
									MO		2.38	mg/L	
						PH	S	Q	L	DM	5	12.5	pH
						SILVER	S	Q	F	DM		.43	mg/L
									MO		.24	mg/L	

D. (cont.) SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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Facility	Pmt	Name	Address	Conn	Total IW (gpd)	Parmcode	City	Self	Cat	Period	Lower Limit	Upper Limit	Units
12-0202	03-A	Spec-Built Systems Inc	2150 Michael Faraday Dr, San Diego	110	30	TTO(413+433)-P ZINC	A S	Q Q	F F	DM DM	2130 2.61		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/GREASE PH	H H	M M	L L	DM DM	500 12.5	5	mg/L pH
						PH HIGHEST TEMP	N H		L M	DM DM	12.5 65.5		pH DegC
12-0244	01-C	Harcon Precision Metals Inc	1790 Dornoch Ct, San Diego	110	286	CADMIUM	S	S	F	DM	.11		mg/L
						CHROMIUM	S	S	F	DM	.07		mg/L
										MO	2.77		mg/L
						COPPER	S	S	F	DM	1.71		mg/L
										MO	3.38		mg/L
						CYANIDE(T)	S	S	F	DM	2.07		mg/L
										MO	1.2		mg/L
						LEAD	S	S	F	DM	.65		mg/L
										MO	.69		mg/L
						NICKEL	S	S	F	DM	.43		mg/L
										MO	3.98		mg/L
						PH	S	S	L	DM	2.38		mg/L
						PH HIGHEST	S		L	DM	5	12.5	pH
						SILVER	S	S	F	DM	12.5		pH
										MO	.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	01-B	Jensen Meat Company Inc	2550 Britannia Bl Suite 101, San Diego	110	20,076	OIL/GREASE	Q	Q	L	DM	500		mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						TFDS	Q	Q	L	DM	1000		mg/L
12-0283	01-A	Spectex Inc dba Specialty Textile Services	1333 30th St Suite A, San Diego	110	19,388	OIL/GREASE	Q	Q	L	DM	500		mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						TDS	Q	Q	L	DM	1000		mg/L
12-0285	01-A	General Services Administration SYLPOE	-720 E San Ysidro Bl, San Diego	100	1,470	CHLORIDE	Q		L	DM	230		mg/L
						SULFIDE DISSOLVD	Q		L	DM	1		mg/L
						TDS	Q		L	DM	1000		mg/L
						TSS	Q	M	L	DM	10000		mg/L
13-0115	05-A	Doncasters GCE Industries	757 Main St, Chula Vista	330	572	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

D. (cont.) SIU Facilities: Regulated Parameters by Connection Treatment Plant 6

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<i>Facility</i>	<i>Pmt 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	05-A Doncasters GCE Industries	757 Main St, Chula Vista	330	572	CYANIDE(T)	Q	Q	F	DM	1.2		mg/L	
								MO	.65	mg/L			
								DM	.69	mg/L			
								MO	.43	mg/L			
								DM	3.98	mg/L			
								MO	2.38	mg/L			
								DM	5	12.5	pH		
								L	DM	12.5	pH		
								F	DM	.43	mg/L		
								MO	.24	mg/L			
						DM	2130	ug/L					
						DM	2.61	mg/L					
						MO	1.48	mg/L					
			410			340	CADMIUM	Q	Q	F	DM	.11	mg/L
										MO	.07	mg/L	
										DM	2.77	mg/L	
										MO	1.71	mg/L	
										DM	3.38	mg/L	
										MO	2.07	mg/L	
										DM	1.2	mg/L	
							MO	.65	mg/L				
							DM	.69	mg/L				
							MO	.43	mg/L				
			DM	3.98	mg/L								
			MO	2.38	mg/L								
			DM	5	12.5	pH							
			L	DM	12.5	pH							
			F	DM	.43	mg/L							
			MO	.24	mg/L								
			DM	2130	ug/L								
			DM	2.61	mg/L								
			MO	1.48	mg/L								
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

E. Active NonSIU Permits, Treatment Plant 6

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Class 2

<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>
13-0159	04-A	SOS Metals San Diego	635 Anita St, Chula Vista
13-0278	04-A	Republic Services dba Allied Waste Services	881 Energy Wy, Chula Vista
13-0316	02-A	Fuller Ford	560 Auto Park Dr, Chula Vista
12-0140	01-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
12-0177	01-A	Truck Net LLC	8490 Avenida De La Fuente, San Diego
13-0327	03-A	Dresser-Rand	1675 Brandywine Av Suite E&F, Chula Vista
12-0254	01-A	Northwest Circuits Corp	8660 Avenida Costa Blanca, San Diego
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
13-0399	02-A	Veolia Transportation	3650A Main St, Chula Vista
12-0145	04-A	Larkspur Energy	9355 Otay Mesa Rd, San Diego
12			

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
13-0439	01-A	Toyota Chula Vista	650 Main St, Chula Vista
13-0298	03-A	Chula Vista Energy Center LLC	3497 Main St, Chula Vista
12-0028	01-A	Palm Ave LLC	1835 Palm Av, San Diego
4			

Grand total: **16**

F. Active Groundwater Permits, Treatment Plant 6

Report run on: Friday, January 2, 2015 1:25 pm

Grand total: 0

G. Dry Cleaners subject to BMPs, Treatment Plant 6

Report run on: Friday, January 2, 2015 1:24 pm

Class 4D

Facility	Permit	Name	Address
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

H. Film Processors subject to BMPs, Treatment Plant 6

Report run on: Friday, January 2, 2015 1:29 pm

Class 2F

Facility	Permit	Name	Address
13-0117	02-A	Bay Port Press	645 Marsat St Suite D, Chula Vista
12-0081	00-A	San Ysidro Health Center	4004 Beyer Bl, San Diego
13-0048	02-A	Hyspan Precision Products	1685 Brandywine Av, Chula Vista
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
12-0114	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
13-0235	01-A	Photo Max	1367 3rd Av, Chula Vista
13-0255	01-A	Hilltop Dentistry	11 Naples St, 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
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
12-0121	01-A	Jerome A Bannister DDS	4370 Palm Av Suite C, San Diego
12-0113	01-A	So San Diego Veterinary Hosp	2910 Coronado Av, San Diego
13-0249	01-A	The Pet Clinic	3326 Main St, Chula Vista
13-0256	01-A	Langford Chiropractor	4360 Main St Suite 209, Chula Vista
13-0379	01-A	Amazon Animal Hospital	1172 3rd Av Suite D8, Chula Vista
12-0186	01-A	Rancho Vista Medical & Therapy Center Inc	342 W San Ysidro Bl Suite F, San Diego
13-0333	01-A	Costco Wholesale Photo Lab # 781	1130 Broadway, Chula Vista
13-0414	01-A	Walgreens # 2623	1111 3rd Av, 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
13-0456	01-A	East Lake Plaza Dental	2060 Otay Lakes Rd Suite 230, Chula Vista
13-0442	01-A	Wal-Mart # 3516	1360 Eastlake Py, Chula Vista
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

31

Grand total: 31

IV. SIU Compliance and Enforcement

A. Annual Compliance Summary

F wtkpi "E[4236"vj g'r tqi tco "cf o kpkvgtgf "34"UKW'r gto ku."eqxgtkpi "35"qwhcmu"cpf "o qpkqgtgf "cv"36 " uco r ng'r qkpw0"P q'fcekklkgu"qt"qwhcmu"y gtg'kp"UP E"f wtkpi "vj g" { gct0"Vj gug'fcekklkgu"ctg'kpenwf gf "kp" vj g'ecrewr vkqp"qh"vj g'O gvtq"U{ ugo "cppwcn"Uki pkhcepv"P qp/Eqo r nkepeg"TCvg'tgr qtvgf "kp"vj g'E[4236" Rtgtgcvo gpv"Cppwcn"Tr qtvhqt"vj g'RvNqo c"RQVY ."Dqctf "Qtf gt"P q0T; /4235/222""P RF GU'Rgto k' P q0EC232; 2670" " "

B. Characterization of the Compliance Status of Each SIU

Vj g"Cppwcn"UKWEqo r nkepeg"Ucwwu"Tr qtvhqt"E[4236." y j lej "hmqy u"vj ku'r ci g. "rkuw"vj g'kpf wux { " pco g." cf f tguu." r gto k' pwo dgt." r gto k' emuu=kpf wu vlcni' hmqy "d{ "eqppgevkqp=xkqr vkqp" f cvgu"cpf " f guetk vkpu."h'cr r ncedrg=f kiej cti g'ucpf ctf "cpf "r gkqf."cpf "cewcn'xc mg'tguwvki "kp"vj g'xkqr vkqp= y j gyj gt"vj g'xkqr vkqp"gzeggf gf "vj g"VTE=cpf "y j gv j gt"vj g'kpf wux { "j cu'dggp"kp"Uki pkhcepv v"P qp/ Eqo r nkepeg"UP E+"cv"cp{ "ko g'f wtkpi "vj g" { gct0" " "

C. SIU Enforcement Actions Initiated, Continued, or Finalized in CY2014

Doncasters GCE Industries; IU # 13-0115

Vj ku"uj ggvo gvcn'hcdtlecvqt"qh'eqo r qpgpw'hqt"uv cvkqct { "wtdkpg'r qy gt "wp ku" f kiej cti gu'cdqwu"; 22" i r f "Itqo " cuuqekcvgf "o gvcn'hkpkuj kpi "qr gtcvkqp. " kpenwf kpi "562"i r f "v"eqppgevkqp"632"itqo " f { g" r gpgtcvp'vguvki "cpf "y cvgt"lgv'ewvki 0"C"ukpi ng'uco r ng'cv'eqppgevkqp"632"kp"Qevdgt"4235"gzeggf gf " vj g" f ckn' "o czko wo "cpf "o qpj n' "cxgtci g'hqt"ej tqo kwo "cpf "tguwngf "kp"UP E"ucwwu'hqt"vj g'hqwtvj " s wctvt"qh"E[350"P QXu"y gtg'kuuwgf "hqt"vj g'xkqr vkqp"cpf "kp"ku'tgur qpug"vj g'KW"kpf kcvgf "k'j cf "pqv" ej cpi gf "qww'ku'hngt"o gf k"htgs wgpvn' "gpqwi j "v" "o gg'vj g'f go cpf "qh'r tqf wvkqp"rgxgnu"cpf "y qwr" " ko r ngo gpv'c"dk'o qpj n' "ej cpi g'qwi qkpi "hqty ctf 0"kp "4236."cm"; "o qpkqtkpi "gxgpw"cv'eqppgevkqp"632" *7"d{ "vj g'r tqi tco +f go qpuctcvgf "eqo r nkepeg"cpf "pq'hwvj gt "gphqtego gpv'cvkqpu'ctg'r rppgf 0"

D. Public Information and Involvement

" Gcej "{ gct."c"eqo dkpgf "kuw'qh"cm'hcekklkgu"kp"vj g'O gvtqr qrkcp"Ugy gtc i g"U{ ugo "ugt xleg"ctgc"vj cv'y gtg" kp"UP E"cv"cp{ "ko g'f wtkpi "vj g" { gct"ku'r vdrkuj gf "kp"vj g"Wpkqp"Vtkdwpg=vj ku'kuw'ku'kpenwf gf "kp"Ej cr vgt" 6"qh"vj g'E[4236"Cppwcn"Tr qtvhqt"vj g'RqkpvNqo c"RQVY "P RF GU'Rgto k'P q0EC232; 2670" " "

Kp"E[4236."vj g'hmqy kpi "UKWu" f kiej cti kpi "vtdwct { "v"vj g"UDY TR"y gtg'kp"Uki pkhcepv"P qp/ Eqo r nkepeg<

Name	Address	Pollutant in Violation
P qpg"	"	"

Annual SIU Compliance Status Report

01-Jan-2014 through 31-Dec-2014

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
AP Precision Metals 1215 30th St, San Diego	12-0144	1	75	No		110	29-Apr-14	SMR Late - written notice					
						110	05-May-14	SMR Incomplete					
Doncasters GCE Industries 757 Main St, Chula Vista	13-0115	1	913	No		330	01-Jul-14	Chromium, Total	7.71	1.71	MO	F	Y
						330	01-Jul-14	Lead, Total	.68	.43	MO	F	Y
						330	01-Jul-14	Nickel, Total	2.53	2.38	MO	F	N
						330	01-Jul-14	Zinc, Total	5.26	1.48	MO	F	Y
						330	31-Jul-14	Chromium, Total	7.71	2.77	DM	F	Y
						330	31-Jul-14	Zinc, Total	5.26	2.61	DM	F	Y
						330	20-Oct-14	SMR Incomplete - failed notify in 24 hrs					
						330	20-Oct-14	SMR Incomplete - failed to resample					
Emerald Textiles LLC 1725 Dornoch Ct, San Diego	12-0065	3	67703	No		110	26-Mar-14	SMR Late - written notice					
General Services Administration - SYLPOE 720 E San Ysidro Bl, San Diego	12-0285	3	1470	No		110	21-Jul-14	SMR Late - written notice					
						110	22-Sep-14	SMR Late - written notice					
						120	21-Jul-14	SMR Late - written notice					
						120	22-Sep-14	SMR Late - written notice					
						130	21-Jul-14	SMR Late - written notice					
						130	22-Sep-14	SMR Late - written notice					
							02-Jul-14	Delinquent Requirement					
Harcon Precision Metals Inc 1790 Dornoch Ct, San Diego	12-0244	1	286	No		NA							
Heinz Frozen Foods 7878 Airway Rd, San Diego	12-0154	3	62411	No		NA							

Annual SIU Compliance Status Report

01-Jan-2014 through 31-Dec-2014

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
Jensen Meat Company Inc 2550 Britannia Bl Suite 101, San Diego	12-0275	3	20076	No		110	29-Apr-14	SMR Late - written notice					
						110	22-May-14	SMR Late - written notice					
						110	27-May-14	SMR Incomplete					
						110	24-Jun-14	SMR Late - written notice					
						110	28-Jul-14	SMR Incomplete					
						110	28-Jul-14	SMR Incomplete					
						110	20-Oct-14	SMR Incomplete					
Otay Mesa Energy Center LLC 606 De La Fuente Ct, San Diego	36-0001	1	43032	No		NA							
RJ Donovan Correctional Facility 480 Alta Rd, San Diego	12-0038	3	48948	No		100	21-Nov-14	SMR Late - written notice					
Southwest Products LLC dba Circle Foods 8411 Siempre Viva Rd, San Diego	12-0220	3	99222	No		110	27-Feb-14	Oil and grease, Total-Instantaneous	625	500	DM	L	N
						110	27-Aug-14	Temperature-Instantaneous	32				
						110	01-Oct-14	SMR Incomplete					
Spec-Built Systems Inc 2150 Michael Faraday Dr, San Diego	12-0202	1	30	No		110	29-Apr-14	SMR Late - written notice					
Spectex Inc dba Specialty Textile Services 1333 30th St Suite A, San Diego	12-0283	3	19388	No		NA							

NOVs Issued in 2014 for SIUs Discharging to Treatment Plant 6

Report run on: Thursday, February 26, 2015 1:11 pm

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>
AP Precision Metals	12-0144	110	74332	29-Apr-2014	29-Apr-2014		50	Notice only
			74368	05-May-2014	06-May-2014	31-Mar-2014	50	Notice only
Circle Foods LLC	12-0220	110	74071	01-Apr-2014	01-Apr-2014	27-Feb-2014	50	Initial notice
			76012	01-Oct-2014	01-Oct-2014	27-Aug-2014	50	Notice only
Doncasters GCE Industries	13-0115	330	76138	20-Oct-2014	30-Oct-2014	31-Jul-2014	100	Initial notice
			76138	20-Oct-2014	03-Nov-2014	31-Jul-2014	100	Final notice
			76448	12-Nov-2014	12-Nov-2014	31-Jul-2014	100	Initial notice
Doncasters GCE Industries	13-0115	410	73391	10-Feb-2014	10-Feb-2014	29-Oct-2013	50	Notice only
			73753	31-Dec-2013	30-Jul-2014	31-Dec-2013	266	Final notice
Emerald Textiles LLC	12-0065	110	74030	26-Mar-2014	26-Mar-2014		50	Notice only
			76108	20-Oct-2014	21-Oct-2014	15-Jul-2014	0	Notice only
General Services Administration - SYLPOE	12-0285	110	75264	21-Jul-2014	21-Jul-2014		100	Initial notice
			75985	22-Sep-2014	22-Sep-2014		100	Initial notice
General Services Administration - SYLPOE	12-0285	120	75265	21-Jul-2014	21-Jul-2014		100	Initial notice
			75986	22-Sep-2014	22-Sep-2014		100	Initial notice
General Services Administration - SYLPOE	12-0285	130	75266	21-Jul-2014	21-Jul-2014		100	Initial notice
			75987	22-Sep-2014	22-Sep-2014		100	Initial notice
Jensen Meat Company Inc	12-0275	110	74334	29-Apr-2014	29-Apr-2014		100	Initial notice
			74846	22-May-2014	22-May-2014		100	Initial notice
			75063	24-Jun-2014	24-Jun-2014		100	Initial notice
			75272	28-Jul-2014	31-Jul-2014	03-Jul-2014	50	Notice only
			76109	20-Oct-2014	21-Oct-2014	04-Sep-2014	50	Notice only
RJ Donovan Correctional Facility	12-0038	100	76790	21-Nov-2014	21-Nov-2014		50	Notice only
Spec-Built Systems Inc	12-0202	110	74333	29-Apr-2014	29-Apr-2014		50	Notice only
Spectex Inc dba Specialty Textile Services	12-0283	110	76235	27-Oct-2014	27-Oct-2014	26-Sep-2014	100	Initial notice
Total fees:							\$2,066	
NOV count:			25					

F. Sampling in 2014 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, February 19, 2015 3:56 pm

Page 1

<i>Facility Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt</i>	<i>Parmcode</i>	<i>City</i>	<i>Self</i>
				<i>Include</i>		<i>Samples</i>	<i>Samples</i>
12-0038 04-B	RJ Donovan Correctional Facility	100	Prison Sewer Main	L	COD	9	6
					OIL/GREASE	5	6
					PH	5	6
					TSS	9	6
					FLOW		12
12-0065 03-C	Emerald Textiles LLC	110	Commercial Laundry	L	COD	4	4
					FLOW MAX		12
					OIL/GREASE	3	4
					PH	4	4
					TSS	4	4
12-0144 04-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	F	CADMIUM	3	3
					CHROMIUM	3	3
					COPPER	3	3
					CYANIDE(T)	3	3
					FLOW		4
					FLOW MAX		3
					LEAD	3	3
					NICKEL	3	3
					PH	3	3
					SILVER	3	3
					TTO CERT		4
					TTO(413+433)-P	1	
					ZINC	3	3
12-0154 03-B	Heinz Frozen Foods	110	Food Manufacturing	L	CHROMIUM	3	4
					COD	9	12
					FLOW		12
					FLOW MAX		12
					FLOW TOTIMPORTED		12
					FLOWMETER READ 1	9	12
					FLOWMETER READ 2	9	12
					OIL/GREASE	18	12
					PH	18	12
					PH HIGHEST		
					PH LOWEST		
					TEMP	9	12
					TSS	9	12
12-0202 03-A	Spec-Built Systems Inc	110	Iron Phosphating	F	CADMIUM	4	
					CHROMIUM	4	
					COPPER	4	
					CYANIDE(T)	4	
					FLOW		4
					FLOW MAX		4
					LEAD	4	

Sampling in 2014 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, February 19, 2015 3:56 pm

Page 2

<i>Facility Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt Include</i>	<i>Parmcode</i>	<i>City Samples</i>	<i>Self Samples</i>
12-0202 03-A	Spec-Built Systems Inc	110			NICKEL	4	
					PH	4	
					SILVER	4	
					TTO CERT		3
					TTO(413+433)-P	1	
12-0220 04-A	Southwest Products LLC dba Circle Foods	110	Food manufacturing	L	ZINC	4	
					OIL/GREASE	7	11
					PH	6	11
					PH HIGHEST		
					PH LOWEST		
12-0244 01-C	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	F	TEMP	6	11
					CADMIUM	2	2
					CHROMIUM	2	2
					COD	2	2
					COPPER	2	2
					CYANIDE(T)	1	2
					FLOW		2
					FLOW MAX		2
					LEAD	2	2
					NICKEL	2	2
					PH	2	2
					PH HIGHEST	2	
					PH LOWEST	2	
					SILVER	2	2
					TSS	2	2
TTO CERT		2					
TTO(413+433)-P	1	1					
12-0275 01-B	Jensen Meat Company Inc	110	Meat processing, cleaning/sanitizing	L	ZINC	2	2
					CHLORIDE	1	5
					COD	1	5
					FLOW		9
					FLOW MAX		9
					OIL/GREASE	3	5
					PH	1	2
					RAIN DIVERT CERT		1
					TFDS	1	1
					TSS	1	5
12-0283 01-A	Spectex Inc dba Specialty Textile Services	110	Commerical Laundry	L	COD	1	3
					FLOW		5
					FLOW MAX		5
					OIL/GREASE	1	3
					PH	1	3
					TDS	1	3

Sampling in 2014 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, February 19, 2015 3:56 pm

Page 3

<i>Facility Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt Include</i>	<i>Parmcode</i>	<i>City Samples</i>	<i>Self Samples</i>
12-0283 01-A	Spectex Inc dba Specialty Textile Services	110			TSS	1	3
12-0285 01-A	General Services Administration - SYLPOE	100	Sewer Main	L	CHLORIDE SULFIDE DISSOLVD TDS		
		110	Waste activated sludge	L	COD TSS	1 1	2 2
		120	Untreated wastewater	L			
		130	Treated wastewater	L			
13-0115 05-A	Doncasters GCE Industries	200	Bldg 2 Lateral, 1887 Nirvana Av	L	ZERODISCHRG CERT		4
		300	Bldg 3 Lateral, 757 Main St	L			
		330	Dye Pen / Vibra Clean	F	CADMIUM CHROMIUM COPPER CYANIDE(T) FLOW FLOW MAX LEAD NICKEL PH PH HIGHEST PH LOWEST SILVER TTO CERT TTO(413+433)-P ZINC	3 3 3 3 3 3 3 2 2 3 1 3	5 5 5 5 5 5 5 4 5
		410	Dye Pen / Water Jet Cutting	F	CADMIUM CHROMIUM COPPER CYANIDE(T) FLOW FLOW MAX LEAD NICKEL PH PH HIGHEST PH LOWEST SILVER TTO CERT TTO(413+433)-P ZINC	5 5 5 2 5 5 2 1 1 5 1 1 5 1 5 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4
36-0001 02-A	Otay Mesa Energy Center LLC	110	WetSac blowdown + OWS	F	CHROMIUM	4	4

Sampling in 2014 at SIUs discharging to Treatment Plant 6

Report run on: Thursday, February 19, 2015 3:56 pm

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<i>Facility Pmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Pmt Include</i>	<i>Parmcode</i>	<i>City Samples</i>	<i>Self Samples</i>
36-0001 02-A	Otay Mesa Energy Center LLC	110			FLOW		4
					FLOW MAX		4
					OIL/GREASE	4	4
					PH	4	4
					PH HIGHEST		
					PH LOWEST		
					TDS	2	4
					ZINC	4	4
		120	PCB zero discharge	F	ZERODISCHRG CERT		4
		140	Turbine washing	F	COPPER	1	2
					FLOW		2
					FLOW MAX		2

SIUs: **12**

I O'TTO Sampling in 2014 at SIUs discharging to Treatment Plant 6

Report run on: Friday, February 20, 2015 10:39 am

Page 1

<i>FacilityPmt</i>	<i>Name</i>	<i>Conn</i>	<i>Principle Process</i>	<i>Batch</i>	<i>City TTO Samples</i>	<i>Self TTO Samples</i>	<i>Self Cert</i>
12-0144 04-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	N	1		4
12-0202 03-A	Spec-Built Systems Inc	110	Iron Phosphating	Y	1		3
12-0244 01-C	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	N	1	1	2
13-0115 05-A	Doncasters GCE Industries	330	Dye Pen / Vibra Clean	N	1		4
		410	Dye Pen / Water Jet Cutting	N	1		4

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 3 through 24 provide results for all influent and effluent during CY2014 for 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.

TABLE V.A-1
SOUTH BAY WATER RECLAMATION PLANT INFLUENT HEAVY METALS
Average Concentration and Loadings for 2014

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)		0.53	1.2	2	2	0.53	0.40	2.50
Jan	7.90	0	3.2	91	0	5.88	0	146
Feb	7.89	0	3.3	95	0	9.72	0	161
Mar	8.02	0	2.6	96	0	5.20	0	160
Apr	8.14	0	2.4	93	0	4.44	0	148
May	8.13	0	1.9	77	0	4.61	0	124
Jun	8.08	0	3.8	96	3	4.57	0.9	180
Jul	8.09	0	4.2	81	5	5.01	0	173
Aug	8.01	0.28	3.1	76	5	5.39	0	172
Sep	8.00	0.37	3.5	85	2	5.12	0	161
Oct	7.74	0	3.9	87	2	5.59	0	189
Nov	7.59	0.29	13.2	81	3	18.20	0	162
Dec	7.99	0.33	3.9	88	4	4.89	0	178
Avg Flow	7.97							
Avg ug/L		0.1	4.1	87	2.0	7	0.1	163
LBS/day		0.0	0.3	6	0.1	0	0.0	11
Total lb HM	17.46							
Total lb (-)Ag	17.45							

TABLE V.A-2
SOUTH BAY WATER RECLAMATION PLANT EFFLUENT HEAVY METALS
Average Concentration and Loadings for 2014

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)		0.53	1.2	2	2	0.53	0.40	2.50
Jan	4.20	0	0	12	0	5.7	0	36
Feb	5.08	0	0	12	2	5.7	0	35
Mar	4.89	0	0	9	2	3.6	0	32
Apr	3.17	0	0	11	0	4.0	0	32
May	1.54	0	0	10	0	3.8	0	30
Jun	1.42	0	0	9	0	2.6	0	28
Jul	0.84	0	1.7	10	3	3.0	0	39
Aug	1.21	0	1.1	9	3	3.3	0	33
Sep	1.54	0	1.5	10	0	3.6	0	29
Oct	1.96	0	1.6	9	0	3.4	0	30
Nov	3.64	0	2	9	2	7.5	0	29
Dec	6.02	0	1.5	6	0	3.4	0	24
Avg Flow	2.96							
Avg ug/L		0.0	0.8	10	1.0	4.1	0.0	31
LBS/day		0.0	0.0	0.2	0.0	0.1	0.0	1
Total lb HM	1.2							
Total lb (-)Ag	1.2							

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2014

Biochemical Oxygen Demand Concentration
(24-hour composite)

Month/ Units:	Influent Flow (MGD)	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Effluent Flow (MGD)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2014	7.90	349	22994	4.20	10	350	97.1
FEBRUARY -2014	7.89	374	24610	5.08	13	551	96.5
MARCH -2014	8.02	356	23812	4.89	10	408	97.2
APRIL -2014	8.14	364	24711	3.17	13	344	96.4
MAY -2014	8.13	351	23799	1.54	13	167	96.3
JUNE -2014	8.08	353	23788	1.42	18	213	94.9
JULY -2014	8.09	347	23412	0.84	17	119	95.1
AUGUST -2014	8.01	349	23314	1.21	13	131	96.3
SEPTEMBER-2014	8.00	326	21751	1.54	15	193	95.4
OCTOBER -2014	7.74	336	21689	1.96	17	278	94.9
NOVEMBER -2014	7.59	361	22852	3.64	14	425	96.1
DECEMBER -2014	7.99	346	23056	6.02	14	703	96.0
Average	7.97	351	23316	2.96	14	324	96.0

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

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2014

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 -2014	7.90	285	258	90.5	18778
FEBRUARY -2014	7.89	283	259	91.5	18622
MARCH -2014	8.02	280	255	91.1	18728
APRIL -2014	8.14	282	255	90.4	19144
MAY -2014	8.13	270	245	90.7	18307
JUNE -2014	8.08	277	251	90.6	18666
JULY -2014	8.09	278	255	91.7	18757
AUGUST -2014	8.01	286	258	90.2	19106
SEPTEMBER-2014	8.00	273	247	90.5	18215
OCTOBER -2014	7.74	283	256	90.5	18268
NOVEMBER -2014	7.59	291	264	90.7	18420
DECEMBER -2014	7.99	280	255	91.1	18658
Average	7.97	281	255		18639

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 -2014	4.20	6.2	5.6	90.3	217	97.8	97.8
FEBRUARY -2014	5.08	8.4	7.5	89.3	356	97.0	97.1
MARCH -2014	4.89	6.9	6.2	89.9	281	97.5	97.6
APRIL -2014	3.17	6.9	6.1	88.4	182	97.6	97.6
MAY -2014	1.54	6.3	5.6	88.9	81	97.7	97.7
JUNE -2014	1.42	8.8	7.8	88.6	104	96.8	96.9
JULY -2014	0.84	7.4	6.5	87.8	52	97.3	97.5
AUGUST -2014	1.21	6.9	6.2	89.9	70	97.6	97.6
SEPTEMBER-2014	1.54	6.7	5.9	88.1	86	97.5	97.6
OCTOBER -2014	1.96	6.4	5.6	87.5	105	97.7	97.8
NOVEMBER -2014	3.64	7.6	6.8	89.5	231	97.4	97.4
DECEMBER -2014	6.02	7.5	6.6	88.0	377	97.3	97.4
Average	2.96	7.2	6.4		179	97.4	97.5

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

SOUTH BAY WATER RECLAMATION PLANT

Annual 2014

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 -2014	4.20	7.37	ND	10	6.2	5.6	975
FEBRUARY -2014	5.08	7.39	ND	13	8.4	7.5	946
MARCH -2014	4.89	7.42	ND	10	6.9	6.2	985
APRIL -2014	3.17	7.48	ND	13	6.9	6.1	980
MAY -2014	1.54	7.47	ND	13	6.3	5.6	1000
JUNE -2014	1.42	7.45	ND	18	8.8	7.8	939
JULY -2014	0.84	7.35	ND	17	7.4	6.5	834
AUGUST -2014	1.21	7.49	ND	13	6.9	6.2	798
SEPTEMBER-2014	1.54	7.47	ND	15	6.7	5.9	892
OCTOBER -2014	1.96	7.46	ND	17	6.4	5.6	928
NOVEMBER -2014	3.64	7.38	ND	14	7.6	6.8	935
DECEMBER -2014	6.02	7.28	ND	14	7.5	6.6	1030
Average	2.96	7.42	ND	14	7.2	6.4	937

Analyte:	Oil & Grease	Outfall Temperature	Residual Chlorine	Turbidity	Dissolved Oxygen
Units:	(mg/L)	(°C)	(mg/L)	(NTU)	(mg/L)
JANUARY -2014	3.7	22.8	0.04	2.66	2.40
FEBRUARY -2014	3.3	23.0	0.06	3.55	3.15
MARCH -2014	3.0	23.4	0.05	2.82	2.99
APRIL -2014	3.1	24.1	0.05	2.69	2.04
MAY -2014	3.9	26.6	0.04	2.86	1.90
JUNE -2014	2.7	26.6	0.05	3.21	1.97
JULY -2014	<1.2	27.9	0.06	2.82	1.99
AUGUST -2014	<1.2	27.8	0.05	3.25	1.76
SEPTEMBER-2014	1.6	28.4	0.04	3.18	2.64
OCTOBER -2014	<1.2	28.0	0.05	2.87	1.67
NOVEMBER -2014	1.8	26.1	0.05	3.07	2.56
DECEMBER -2014	2.8	23.7	0.03	2.99	2.50
Average	2.2	25.7	0.05	3.00	2.30

ND=not detected
NR=not required

SOUTH BAY WATER RECLAMATION PLANT

Annual 2014

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 -2014	7.90	NR	999	349	285	258	NR
FEBRUARY -2014	7.89	7.79	996	374	283	259	164
MARCH -2014	8.02	NR	1020	356	280	255	NR
APRIL -2014	8.14	NR	1000	364	282	255	NR
MAY -2014	8.13	7.50	1020	351	270	245	209
JUNE -2014	8.08	NR	959	353	277	251	NR
JULY -2014	8.09	NR	838	347	278	255	NR
AUGUST -2014	8.01	7.52	832	349	286	258	181
SEPTEMBER-2014	8.00	7.75	915	326	273	247	NR
OCTOBER -2014	7.74	7.64	951	336	283	256	181
NOVEMBER -2014	7.59	NR	981	361	291	264	NR
DECEMBER -2014	7.99	NR	1050	346	280	255	NR
Average	7.97	7.64	963	351	281	255	

ND=not detected
NR=not required

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Trace Metals

Annual 2014

Analyte:	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic
MAX MDL Units:	47 UG/L	47 UG/L	2.9 UG/L	2.9 UG/L	.06 UG/L	.06 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:					2800	
JANUARY -2014	640	ND	ND	ND	0.9	0.7
FEBRUARY -2014	517	ND	ND	ND	1.2	0.8
MARCH -2014	590	ND	ND	ND	1.4	1.1
APRIL -2014	545	ND	ND	ND	0.8	0.8
MAY -2014	279	ND	ND	<2.9	1.0	0.8
JUNE -2014	757	<47	ND	ND	1.0	0.5
JULY -2014	579	ND	ND	ND	0.9	0.6
AUGUST -2014	708	<24	3.1	ND	0.8	0.5
SEPTEMBER-2014	548	67	ND	ND	0.6	0.3
OCTOBER -2014	749	40	ND	<2.4	1.1	0.7
NOVEMBER -2014	646	28	ND	<2.4	1.0	0.5
DECEMBER -2014	771	30	ND	<2.4	0.9	0.5
AVERAGE	611	17	0.3	0.0	1.0	0.7

Analyte:	Barium	Barium	Beryllium	Beryllium	Boron	Boron
MAX MDL Units:	.7 UG/L	.7 UG/L	.05 UG/L	.05 UG/L	7 UG/L	7 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						
JANUARY -2014	89.6	61.6	ND	ND	270	286
FEBRUARY -2014	91.4	61.8	ND	ND	278	286
MARCH -2014	98.6	63.7	<0.022	ND	280	284
APRIL -2014	85.5	58.4	ND	ND	276	295
MAY -2014	83.9	63.4	ND	ND	285	292
JUNE -2014	98.6	60.8	ND	ND	291	282
JULY -2014	83.8	56.8	ND	ND	286	299
AUGUST -2014	70.8	44.9	ND	ND	290	309
SEPTEMBER-2014	102	65.9	ND	ND	324	312
OCTOBER -2014	117	75.2	ND	ND	302	305
NOVEMBER -2014	112	76.8	ND	ND	293	291
DECEMBER -2014	120	86.9	ND	ND	276	284
AVERAGE	96.1	64.7	0.0	0.0	288	294

Analyte:	Cadmium	Cadmium	Chromium	Chromium	Cobalt	Cobalt
MAX MDL Units:	53 UG/L	53 UG/L	1.2 UG/L	1.2 UG/L	85 UG/L	5 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	48		760			
JANUARY -2014	ND	ND	3.2	ND	NR	ND
FEBRUARY -2014	ND	ND	3.3	ND	ND	ND
MARCH -2014	ND	ND	2.6	ND	NR	ND
APRIL -2014	ND	ND	2.4	ND	NR	ND
MAY -2014	ND	ND	1.9	ND	ND	ND
JUNE -2014	ND	ND	3.8	ND	NR	ND
JULY -2014	ND	ND	4.2	1.7	NR	ND
AUGUST -2014	0.28	ND	3.1	1.1	0.9	0.6
SEPTEMBER-2014	0.37	ND	3.5	1.5	NR	0.6
OCTOBER -2014	ND	ND	3.9	1.6	0.9	0.4
NOVEMBER -2014	0.29	ND	13.2	2.0	NR	0.4
DECEMBER -2014	0.33	ND	3.9	1.5	NR	0.6
AVERAGE	0.11	0.0	4.1	0.8	0.5	0.2

ND= not detected
NR= not requested

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Trace Metals

Annual 2014

Analyte:	Copper	Copper	Iron	Iron	Lead	Lead
MAX MDL Units:	2.16 UG/L	.16 UG/L	37 UG/L	37 UG/L	2 UG/L	2 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		960				760
=====						
JANUARY -2014	91	12	614	<37	ND	ND
FEBRUARY -2014	95	12	616	ND	ND	ND
MARCH -2014	96	9	792	ND	ND	2.3
APRIL -2014	93	11	629	ND	ND	ND
MAY -2014	77	10	503	58	ND	ND
JUNE -2014	96	9	898	54	2.8	ND
JULY -2014	81	10	685	58	5.5	3.0
AUGUST -2014	76	9	707	67	5.3	2.7
SEPTEMBER-2014	85	10	741	69	1.8	ND
OCTOBER -2014	87	9	887	65	2.2	ND
NOVEMBER -2014	81	9	871	61	3.2	2.0
DECEMBER -2014	88	6	892	58	3.6	ND
=====						
AVERAGE	87	10	736	41	2.0	0.8

Analyte:	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum
MAX MDL Units:	.78 UG/L	.78 UG/L	.005 UG/L	.005 UG/L	.89 UG/L	.89 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:				15.00		
=====						
JANUARY -2014	73.4	19.0	0.146	ND	NR	3.6
FEBRUARY -2014	80.1	27.6	0.094	0.007	5.0	2.6
MARCH -2014	113.0	32.5	0.082	ND	NR	2.9
APRIL -2014	93.8	34.4	0.052	ND	NR	2.8
MAY -2014	76.8	29.1	0.052	0.006	5.8	3.3
JUNE -2014	75.8	38.2	0.085	ND	NR	3.0
JULY -2014	66.7	27.8	0.121	0.005	NR	2.7
AUGUST -2014	62.2	34.7	0.167	0.006	5.6	2.6
SEPTEMBER-2014	59.3	39.9	0.056	0.005	NR	3.0
OCTOBER -2014	60.2	37.6	0.189	ND	6.6	3.3
NOVEMBER -2014	58.4	37.0	0.157	ND	NR	3.1
DECEMBER -2014	65.6	42.6	0.128	ND	NR	3.0
=====						
AVERAGE	73.8	33.4	0.111	0.002	5.8	3.0

ND= not detected
NR= not requested

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Trace Metals

Annual 2014

Analyte:	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MAX MDL Units:	.53 UG/L	.53 UG/L	.08 UG/L	.08 UG/L	.73 UG/L	.73 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	1900		5700		250	
=====						
JANUARY -2014	5.88	5.70	0.95	0.58	ND	ND
FEBRUARY -2014	9.72	5.66	1.16	0.54	ND	ND
MARCH -2014	5.20	3.58	1.76	0.66	ND	ND
APRIL -2014	4.44	4.02	1.03	0.64	ND	ND
MAY -2014	4.61	3.75	1.10	0.51	ND	ND
JUNE -2014	4.57	2.61	1.62	0.54	0.9	ND
JULY -2014	5.01	2.96	1.67	0.50	ND	ND
AUGUST -2014	5.39	3.27	1.55	0.51	ND	ND
SEPTEMBER-2014	5.12	3.59	1.62	0.67	ND	ND
OCTOBER -2014	5.59	3.38	0.14	0.72	ND	ND
NOVEMBER -2014	18.20	7.54	1.92	0.83	ND	ND
DECEMBER -2014	4.89	3.36	2.08	0.97	ND	ND
=====						
AVERAGE	6.55	4.12	1.38	0.64	0.1	ND

Analyte:	Thallium	Thallium	Vanadium	Vanadium	Zinc	Zinc
MAX MDL Units:	3.9 UG/L	3.9 UG/L	.64 UG/L	.64 UG/L	4.19 UG/L	4.19 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:					6900	
=====						
JANUARY -2014	ND	ND	NR	ND	146	36.0
FEBRUARY -2014	ND	ND	2.0	1.37	161	35.4
MARCH -2014	ND	ND	NR	1.47	160	31.8
APRIL -2014	ND	ND	NR	ND	148	31.7
MAY -2014	ND	ND	0.9	ND	124	29.8
JUNE -2014	ND	ND	NR	ND	180	28.2
JULY -2014	ND	ND	NR	0.60	173	39.2
AUGUST -2014	ND	ND	1.4	0.65	172	33.4
SEPTEMBER-2014	ND	ND	NR	ND	161	29.3
OCTOBER -2014	ND	ND	1.7	0.85	189	29.8
NOVEMBER -2014	ND	ND	NR	0.50	162	28.5
DECEMBER -2014	ND	ND	NR	<0.45	178	24.2
=====						
AVERAGE	0.0	0.0	1.5	0.45	163	31.4

ND= not detected
NR= not requested

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Ammonia-Nitrogen and Total Cyanides

Annual 2014

Analyte:	Ammonia-N		Total Cyanides	
	Ammonia-N	Ammonia-N	Total Cyanides	Total Cyanides
MDL/Units:	.3 MG/L	.3 MG/L	.002 MG/L	.002 MG/L
Source:	SB_INF_02	SB_OUTFALL_01	SB_INF_02	SB_OUTFALL_01
=====	=====	=====	=====	=====
JANUARY -2014	33.1	ND	0.002	ND
FEBRUARY -2014	36.6	ND	ND	ND
MARCH -2014	32.3	ND	ND	ND
APRIL -2014	29.0	ND	ND	0.002
MAY -2014	31.4	ND	ND	ND
JUNE -2014	32.3	0.4	ND	0.003
JULY -2014	31.5	ND	ND	0.002
AUGUST -2014	31.2	ND	ND	<0.002
SEPTEMBER-2014	31.5	ND	ND	ND
OCTOBER -2014	34.6	0.6	ND	ND
NOVEMBER -2014	35.4	0.8	ND	ND
DECEMBER -2014	36.1	5.1	ND	ND
=====	=====	=====	=====	=====
Average:	32.9	0.6	0.0002	0.001

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT
Radioactivity
Effluent to the Ocean (SB_OUTFALL_01)

Analyzed by: TestAmerica Laboratories Richland

Annual 2014

Month	Gross Alpha Radiation	Gross Beta Radiation
JANUARY -2014	5.9 ± 5.4	19.4 ± 5.3
FEBRUARY -2014	4.8 ± 5.2	12.7 ± 4.7
MARCH -2014	2.3 ± 3.9	17.0 ± 4.5
APRIL -2014	4.4 ± 6.7	21.5 ± 5.7
MAY -2014	3.0 ± 5.6	20.5 ± 5.3
JUNE -2014	-2.4 ± 3.9	9.5 ± 4.8
JULY -2014	-1.2 ± 4.1	21.9 ± 7.4
AUGUST -2014	1.8 ± 4.2	18.8 ± 4.4
SEPTEMBER-2014	2.7 ± 4.8	19.9 ± 5.0
OCTOBER -2014	4.2 ± 3.9	20.3 ± 4.2
NOVEMBER -2014	1.2 ± 3.6	17.3 ± 3.8
DECEMBER -2014	4.4 ± 4.3	24.5 ± 4.7
AVERAGE	2.6 ± 4.6	18.6 ± 5.0

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

Annual 2014

Source:	EFFLUENT														
Date:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Avg	
Analyte	MDL Units														
Aldrin	4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dieldrin	4.3 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BHC, Alpha isomer	.2 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BHC, Beta isomer	2 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	<2	
BHC, Gamma isomer	.34 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BHC, Delta isomer	2 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p,p-DDD	4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p,p-DDE	1.4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p,p-DDT	3 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o,p-DDD	4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o,p-DDE	2 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o,p-DDT	2.4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	.6 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor epoxide	9.4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha (cis) Chlordane	1.4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gamma (trans) Chlordane	1.3 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha Chlordene	0 NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Gamma Chlordene	0 NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Oxychlordane	2 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trans Nonachlor	1.1 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cis Nonachlor	4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha Endosulfan	1.5 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta Endosulfan	3.1 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfan Sulfate	7 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endrin	6 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endrin aldehyde	5.4 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Mirex	2.3 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methoxychlor	20 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toxaphene	250 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1016	250 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1221	2000 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1232	750 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1242	250 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1248	250 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1254	500 NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB 1260	500 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	ND	ND	ND	ND	ND	
Aldrin + Dieldrin	4.3 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hexachlorocyclohexanes	2 NG/L	0	0	0	0	0	0	0	0	0	2	0	0	0	
DDT and derivatives	4 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Chlordane + related cmpds.	2 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Polychlorinated biphenyls	2000 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Endosulfans	7 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Heptachlors	9.4 NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	
Chlorinated Hydrocarbons	2000 NG/L	0	0	0	0	0	0	0	0	0	2	0	0	0	

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.

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

Annual 2014

Source:	INFLUENT						
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Avg
=====	====	=====	=====	=====	=====	=====	=====
Aldrin	4	NG/L	ND	ND	ND	ND	ND
Dieldrin	4.3	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	.2	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	2	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	.34	NG/L	ND	ND	ND	ND	ND
BHC, Delta isomer	2	NG/L	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND
p,p-DDE	1.4	NG/L	ND	33	ND	ND	8
p,p-DDT	3	NG/L	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND
o,p-DDE	2	NG/L	ND	ND	ND	ND	ND
o,p-DDT	2.4	NG/L	ND	ND	ND	ND	ND
Heptachlor	.6	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	9.4	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	1.4	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	1.3	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene	0	NG/L	NA	NA	NA	NA	NA
Gamma Chlordene	0	NG/L	NA	NA	NA	NA	NA
Oxychlordane	2	NG/L	ND	ND	ND	ND	ND
Trans Nonachlor	1.1	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	4	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	1.5	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	3.1	NG/L	ND	ND	ND	ND	ND
Endosulfan Sulfate	7	NG/L	ND	ND	ND	ND	ND
Endrin	6	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	5.4	NG/L	ND	ND	ND	ND	ND
Mirex	2.3	NG/L	ND	ND	ND	ND	ND
Methoxychlor	20	NG/L	ND	ND	ND	ND	ND
Toxaphene	250	NG/L	ND	ND	ND	ND	ND
PCB 1016	250	NG/L	ND	ND	ND	ND	ND
PCB 1221	2000	NG/L	ND	ND	ND	ND	ND
PCB 1232	750	NG/L	ND	ND	ND	ND	ND
PCB 1242	250	NG/L	ND	ND	ND	ND	ND
PCB 1248	250	NG/L	ND	ND	ND	ND	ND
PCB 1254	500	NG/L	ND	ND	ND	ND	ND
PCB 1260	500	NG/L	ND	ND	ND	ND	ND
PCB 1262	500	NG/L	ND	ND	ND	ND	ND
=====	====	=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	4.3	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	2	NG/L	0	0	0	0	0
DDT and derivatives	4	NG/L	0	33	0	0	8
Chlordane + related cmpds.	2	NG/L	0	0	0	0	0
Polychlorinated biphenyls	2000	NG/L	0	0	0	0	0
Endosulfans	7	NG/L	0	0	0	0	0
=====	====	=====	=====	=====	=====	=====	=====
Heptachlors	9.4	NG/L	0	0	0	0	0
=====	====	=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	2000	NG/L	0	33	0	0	8

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.

SOUTH BAY WATER RECLAMATION PLANT
Organophosphorus Pesticides EPA Method 614/622 (with additions)

INFLUENT(SB_INF_02) & EFFLUENT(SB_OUTFALL_01)

Annual 2014

Source:			Effluent	Effluent*	Influent	Influent*
Date:			06-MAY-2014	07-OCT-2014	06-MAY-2014	07-OCT-2014
Analyte	MDL	Units	P712566	P734804	P712561	P734799
Demeton O	.15	UG/L	ND	ND	ND	ND
Demeton S	.403	UG/L	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND
Malathion	.051	UG/L	ND	ND	ND	ND
Parathion	.032	UG/L	ND	ND	ND	ND
Dichlorvos	.05	UG/L	ND	ND	ND	ND
Disulfoton	.175	UG/L	ND	ND	ND	ND
Dimethoate	.189	UG/L	ND	ND	ND	ND
Stirophos	.034	UG/L	ND	ND	DNQ0.040	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND
Chlorpyrifos	.034	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.403	UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.403	UG/L	0.0	0.0	0.0	0.0

*= These samples were analyzed with a GCMS-TQ.

ND= not detected

DNQ= Detected not quantifiable, result value less than minimum level (ML) but greater or equal MDL.

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE - Tributyl Tin Analysis

Annual 2014

Source:			EFFLUENT				
Date:			FEB	MAY	AUG	OCT	Average
Analyte	MDL	Units					
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

Source:			INFLUENT				
Date:			FEB	MAY	AUG	OCT	Average
Analyte	MDL	Units					
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL - Acid Extractables

Annual 2014

Source:

EFFLUENT

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
2-Chlorophenol	1.32	UG/L	ND	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	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	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	ND
Pentachlorophenol	1.12	UG/L	ND	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	ND
2-Nitrophenol	1.55	UG/L	ND	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	ND
2,4-Dinitrophenol	2.16	UG/L	ND	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	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols			0.0	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			0.0	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			0.0	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	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	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	ND
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Source:

INFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	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	39.4	39.8	47.0	48.3	43.6
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			0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols			39.4	39.8	47.0	48.3	43.6
Total Phenols			39.4	39.8	47.0	48.3	43.6

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	111	118	111	116	114
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

Annual 2014

Source:

EFFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	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	ND	ND	ND	ND	ND
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	0.0	0.0	0.0	0.0	0.0

Additional analytes determined

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

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

Annual 2014

Source:

INFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	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	5.7	4.5	5.4	5.9	5.4
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	4.0	ND	1.0
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	3.4	2.9	1.6
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	17.2	28.8	19.6	18.0	20.9
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	22.9	33.3	32.4	26.8	28.9

Additional analytes determined

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

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

Annual 2014

Source:	EFFLUENT						
Analyte	MDL	Units	FEB	MAY	AUG	OCT	AVG
=====	=====	=====	=====	=====	=====	=====	=====
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	1.5	ND	ND	0.4
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	ND	DNQ0.7	2.2	ND	0.6
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	DNQ0.8	20.3	DNQ0.9	ND	5.1
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	20.9	ND	ND	5.2
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND
Toluene	.4	UG/L	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	12.3	ND	ND	3.1
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	1.9	ND	ND	0.5
1,1,2,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	3.4	0.0	0.0	0.9
=====	=====	=====	=====	=====	=====	=====	=====
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
=====	=====	=====	=====	=====	=====	=====	=====
Total Chloromethanes	.5	UG/L	0.0	21.8	2.2	0.0	6.6
=====	=====	=====	=====	=====	=====	=====	=====
Purgeable Compounds	1.3	UG/L	0.0	56.9	2.2	0.0	15.4

Additional analytes determined

=====	=====	=====	=====	=====	=====	=====	=====
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	ND	ND	ND
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-Butanone	6.3	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND

ND= not detected

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

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

Annual 2014

Source:		INFLUENT					
Analyte	MDL Units	FEB	MAY	AUG	OCT	AVG	
Dichlorodifluoromethane	.66 UG/L	ND	ND	ND	ND	ND	
Chloromethane	.5 UG/L	ND	ND	ND	ND	ND	
Vinyl chloride	.4 UG/L	ND	ND	ND	ND	ND	
Bromomethane	.7 UG/L	ND	ND	ND	ND	ND	
Chloroethane	.9 UG/L	ND	ND	ND	ND	ND	
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND	ND	
Acrolein	1.3 UG/L	ND	ND	ND	ND	ND	
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND	ND	
Methylene chloride	.3 UG/L	ND	DNQ1.0	1.8	DNQ0.9	0.5	
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND	ND	
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND	ND	
Acrylonitrile	.7 UG/L	ND	ND	ND	ND	ND	
Chloroform	.2 UG/L	1.8	3.4	2.0	1.7	2.2	
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND	ND	
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND	ND	
Benzene	.4 UG/L	ND	ND	ND	ND	ND	
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND	ND	
Trichloroethene	.7 UG/L	ND	ND	ND	ND	ND	
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND	ND	
Bromodichloromethane	.5 UG/L	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND	ND	
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND	ND	
Toluene	.4 UG/L	3.4	DNQ0.7	DNQ0.7	DNQ0.9	0.9	
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND	ND	
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND	ND	
Dibromochloromethane	.6 UG/L	ND	ND	ND	ND	ND	
Chlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	
Ethylbenzene	.3 UG/L	DNQ1.0	ND	ND	ND	0.0	
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	.4 UG/L	DNQ0.4	ND	ND	ND	0.0	
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	1.52 UG/L	ND	ND	ND	ND	ND	
Halomethane Purgeable Cmpnds	.7 UG/L	0.0	0.0	0.0	0.0	0.0	
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0	0.0	
Total Chloromethanes	.5 UG/L	1.8	3.4	3.8	1.7	2.7	
Purgeable Compounds	1.3 UG/L	5.2	3.4	3.8	1.7	3.6	

Additional analytes determined						
Analyte	MDL Units	FEB	MAY	AUG	OCT	AVG
Methyl Iodide	.6 UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6 UG/L	2.2	4.3	2.7	1.6	2.7
Acetone	4.5 UG/L	292	115	207	139	188
Allyl chloride	.6 UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4 UG/L	ND	ND	DNQ0.6	ND	0.0
Chloroprene	.4 UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND	ND
2-Butanone	6.3 UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	4.2	ND	ND	ND	1.1
ortho-xylene	.4 UG/L	DNQ1.9	ND	ND	ND	0.0
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND	ND
Styrene	.3 UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52 UG/L	ND	ND	ND	ND	ND

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

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis

Annual 2014

Source:				INF	INF	INF	INF
Date:				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P692147	P695802	P702467	P708735
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ11.5	DNQ16.9	DNQ13.7	DNQ23.9
octa CDD	1.12	PG/L	0.001	130	140	120	400
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	DNQ0.809	ND	DNQ1.54	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	DNQ2.67	DNQ3.48	DNQ3.61	DNQ6.43
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	DNQ6.5	DNQ7.18	DNQ7.24	DNQ29.5

Source:				INF	INF	INF	INF
Date:				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P712561	P717885	P721731	P723812
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	DNQ12.2	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ11.3	DNQ23.1	74.6	DNQ24.4
octa CDD	1.12	PG/L	0.001	110	150	190	160
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	DNQ4.27	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	DNQ2.02	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	DNQ5.84	DNQ3.89	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	DNQ1.97	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	DNQ6.09	DNQ5.76	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	DNQ7.37	DNQ8.62	ND

Source:				INF	INF	INF	INF
Date:				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P731953	P734799	P742304	P747531
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	DNQ8.4	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ23.1	39.9	26.9	DNQ20.7
octa CDD	1.12	PG/L	0.001	180	250	200	240
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	DNQ4.7	DNQ4.35	DNQ477	DNQ4.99
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	DNQ11.9	DNQ12.5	DNQ11.3	DNQ13.2

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

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis

Annual 2014

Source:				EFF	EFF	EFF	EFF
Date:				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P692151	P695807	P702471	P708739
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ1.12	ND	ND	ND
octa CDD	1.12	PG/L	0.001	DNQ5.66	DNQ6.41	DNQ4.46	ND
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P712566	P717889	P721735	P723817
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.12	PG/L	0.001	ND	ND	DNQ5.48	ND
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P731957	P734804	P742308	P747535
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ3.37	DNQ1.86	ND	ND
octa CDD	1.12	PG/L	0.001	DNQ11.6	DNQ10.7	DNQ7.13	DNQ7.39
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

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

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis Adjusted to Toxicity Equivalents

Annual 2014

Source:				INF	INF	INF	INF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	JAN	FEB	MAR	APR
				P692147	P695802	P702467	P708735
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ0.115	DNQ0.169	DNQ0.137	DNQ0.239
octa CDD	1.12	PG/L	0.001	0.13	0.14	0.12	0.4
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	DNQ0.081	ND	DNQ0.154	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	DNQ0.027	DNQ0.035	DNQ0.036	DNQ0.064
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	DNQ0.007	DNQ0.007	DNQ0.007	DNQ0.03

Source:				INF	INF	INF	INF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	MAY	JUN	JUL	AUG
				P712561	P717885	P721731	P723812
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	DNQ1.22	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ0.113	DNQ0.231	0.746	DNQ0.244
octa CDD	1.12	PG/L	0.001	0.11	0.15	0.19	0.16
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	DNQ0.214	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	DNQ0.202	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	DNQ0.584	DNQ0.389	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	DNQ0.197	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	DNQ0.061	DNQ0.058	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	DNQ0.007	DNQ0.009	ND

Source:				INF	INF	INF	INF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	SEP	OCT	NOV	DEC
				P731953	P734799	P742304	P747531
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	DNQ0.84	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ0.231	0.399	0.269	DNQ0.207
octa CDD	1.12	PG/L	0.001	0.18	0.25	0.2	0.24
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	DNQ0.047	DNQ0.044	DNQ4.77	DNQ0.05
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	DNQ0.012	DNQ0.013	DNQ0.011	DNQ0.013

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

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis Adjusted to Toxicity Equivalents

Annual 2014

Source:				EFF	EFF	EFF	EFF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	JAN	FEB	MAR	APR
				P692151	P695807	P702471	P708739
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ0.011	ND	ND	ND
octa CDD	1.12	PG/L	0.001	DNQ0.006	DNQ0.006	DNQ0.004	ND
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	MAY	JUN	JUL	AUG
				P712566	P717889	P721735	P723817
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.12	PG/L	0.001	ND	ND	DNQ0.005	ND
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
Date:				TCCD	TCCD	TCCD	TCCD
Analyte	MDL	Units	Equiv	SEP	OCT	NOV	DEC
				P731957	P734804	P742308	P747535
2,3,7,8-tetra CDD	.155	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.254	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.31	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.315	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.287	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.53	PG/L	0.010	DNQ0.034	DNQ0.019	ND	ND
octa CDD	1.12	PG/L	0.001	DNQ0.012	DNQ0.011	DNQ0.007	DNQ0.007
2,3,7,8-tetra CDF	.164	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.187	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.178	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.19	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.211	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.265	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.217	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.225	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.317	PG/L	0.010	ND	ND	ND	ND
octa CDF	.579	PG/L	0.001	ND	ND	ND	ND

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

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Cations

Annual 2014

Analyte: MDL/Units: Source:	Calcium .04 mg/L		Magnesium .1 mg/L		Lithium .002 mg/L	
	INF	EFF	INF	EFF	INF	EFF
JANUARY -2014	72.4	70.4	32.4	31.1	0.040	0.040
FEBRUARY -2014	70.1	70.0	32.5	31.4	0.035	0.033
MARCH -2014	75.1	76.7	34.7	34.8	0.037	0.033
APRIL -2014	70.8	72.1	32.9	32.7	0.034	0.030
MAY -2014	71.8	73.7	32.9	32.4	0.036	0.034
JUNE -2014	67.0	65.6	31.7	30.0	0.031	0.028
JULY -2014	63.9	58.9	25.0	24.8	0.033	0.030
AUGUST -2014	48.5	48.9	19.5	18.6	0.031	0.024
SEPTEMBER-2014	65.0	67.8	23.9	24.5	0.051	0.043
OCTOBER -2014	70.5	74.2	26.8	26.3	0.046	0.042
NOVEMBER -2014	72.1	77.7	24.8	27.6	0.054	0.041
DECEMBER -2014	83.7	79.8	30.7	27.9	0.056	0.047
Average:	69.2	69.7	29.0	28.5	0.040	0.035

Analyte: MDL/Units: Source:	Sodium 1 mg/L		Potassium .3 mg/L	
	INF	EFF	INF	EFF
JANUARY -2014	239	238	20.8	19.2
FEBRUARY -2014	200	195	18.7	17.8
MARCH -2014	211	209	18.7	18.1
APRIL -2014	201	215	20.2	18.8
MAY -2014	206	210	19.5	17.8
JUNE -2014	197	196	18.6	16.7
JULY -2014	172	189	18.5	18.0
AUGUST -2014	148	152	16.5	14.8
SEPTEMBER-2014	161	179	17.9	17.3
OCTOBER -2014	185	192	17.9	16.6
NOVEMBER -2014	174	201	18.4	19.1
DECEMBER -2014	191	181	21.3	17.7
Average:	190	196	18.9	17.7

ND=not detected

INF= Influent

EFF= Effluent

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Anions

Annual 2014

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 -2014	0.3	0.4	246	295	0.37	0.50
FEBRUARY -2014	0.4	0.5	243	235	0.28	0.56
MARCH -2014	0.4	0.4	266	263	0.36	0.56
APRIL -2014	0.3	0.4	249	254	0.25	0.54
MAY -2014	0.3	0.4	244	248	0.32	0.56
JUNE -2014	0.3	0.4	240	239	0.29	0.58
JULY -2014	0.2	0.3	206	214	0.35	0.63
AUGUST -2014	0.2	0.2	198	196	0.32	0.50
SEPTEMBER-2014	0.2	0.2	199	208	0.49	0.53
OCTOBER -2014	0.3	0.1	226	228	0.48	0.58
NOVEMBER -2014	0.2	0.2	198	215	0.46	0.57
DECEMBER -2014	0.2	0.1	214	200	0.42	0.58
=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.3	0.3	227	233	0.37	0.56

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 -2014	0.53	52.8	11.5	7.7	140	183
FEBRUARY -2014	0.07	36.9	11.3	6.8	152	182
MARCH -2014	0.99	36.0	10.7	5.9	145	191
APRIL -2014	0.90	42.3	10.7	2.7	139	176
MAY -2014	0.57	38.9	10.4	1.1	138	181
JUNE -2014	2.42	30.4	10.3	1.1	109	162
JULY -2014	3.02	45.3	10.1	2.3	115	163
AUGUST -2014	1.38	36.2	10.7	3.2	116	135
SEPTEMBER-2014	3.71	23.4	11.1	4.5	159	192
OCTOBER -2014	2.92	17.6	10.8	0.8	148	211
NOVEMBER -2014	2.40	35.6	11.0	0.6	181	220
DECEMBER -2014	3.14	27.5	11.3	0.8	204	240
=====	=====	=====	=====	=====	=====	=====
AVERAGE	1.84	35.2	10.8	3.1	146	186

ND= not detected

B. Upset, Interference, and Pass-through

In CY2014, there were no reported incidents of interference with pump station or treatment plant operations by rags, suggesting the sewer grinder and solids removal system installed by the RJ Donovan Correctional Center continues to function reliably and effectively. However, the plant and the collection system did experience the following problems:

(1) The operations section reports that the Otay River Pump Station (ORPS) has a blanket of grease in the wet well each morning. The blanket is cut up by the chopper pumps and sent to the SBWRP. The three food processors tributary to ORPS perform high flow caustic and acid cleaning of all equipment nightly. All permits issued to these food processors have recently been modified to change the applicability of the Oil and Grease limit of 500 mg/L to instantaneous from daily maximum. During 2015, the program will continue to sample and investigate the source(s) of the overnight grease loading.

(2) In March and April CY2014, the plant exceeded the reclaimed water monthly average limit of 260 mg/L for chloride on five occasions; there were no further violations in 2014. We are not aware of any specific industrial discharge that resulted in the high influent chloride values; however the program has begun applying an interim chloride action level of 230 mg/L in permits as they are issued or renewed. Violations will result in a requirement to implement best management practices for self-regenerating water softeners by capturing the brine regenerant and hauling it to Pump Station #1, which is not tributary to a reclamation plant.

(3) In CY2014, the plant experienced influent TDS levels ≥ 1000 ppm in January through May, lessening to just above 800 ppm in July and August, and then steadily increasing again until, in December, the average influent was 1051 ppm. The reduction in TDS levels in the summer results from combining a higher percentage of delta water with Colorado River water in order to produce lower TDS potable water for irrigation in the dry season. However, average annual TDS levels have steadily increased since the SBWRP was constructed based on design TDS criteria of 850 ppm. The increasing average TDS levels have been attributed in part to infiltration and to an increasing number of SIUs tributary to the plant discharging high volume high TDS wastestreams from food processing, self-regenerating water softeners, laundering, and power generation cooling systems. The program is including interim unenforceable goals of 1200 ppm in permits as they are issued or renewed and encouraging dischargers to identify TDS sources and reduction opportunities at their facilities. The program also continues to conduct monthly monitoring for TDS at locations tributary to the SBWRP to quickly identify new infiltration.

In CY2015 the program plans to work with a consultant to conduct a salinity study in order to quantify sources and evaluate control strategies for influent chloride and TDS at the SBWRP.

C. Biosolids Disposal Methods

Biosolids from the SBWRP is conveyed to the Miramar Biosolids Center for processing and disposal in combination with biosolids from throughout the Metropolitan Sewerage System service area. See Chapter 5 Section 5.5 of this year's Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details on CY14 biosolids disposal locations and beneficial uses.

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.