VII. Tijuana Interceptor Data Summary

Beginning in October 1991 the Metropolitan System began accepting sewage flows from the City of Tijuana, State of Baja California, Mexico through an interceptor service connection in San Ysidro, CA. Up to 13 MGD was received from Mexico via the Tijuana Emergency Connection (Interceptor) and was included in the total flows to the Pt. Loma WWTP.

When flow is established via the interceptor, samples are taken at the site of IBWC meter (see Fig. 1. next page) using an ISCO autosampler (volatile organic samples are grabs). The sampling schedule is maintained so as to match the NPDES monitoring at the Pt. Loma WWTP as closely as possible. Weekly samples are taken on the same day as the weekly samples at the Pt. Loma WWTP.

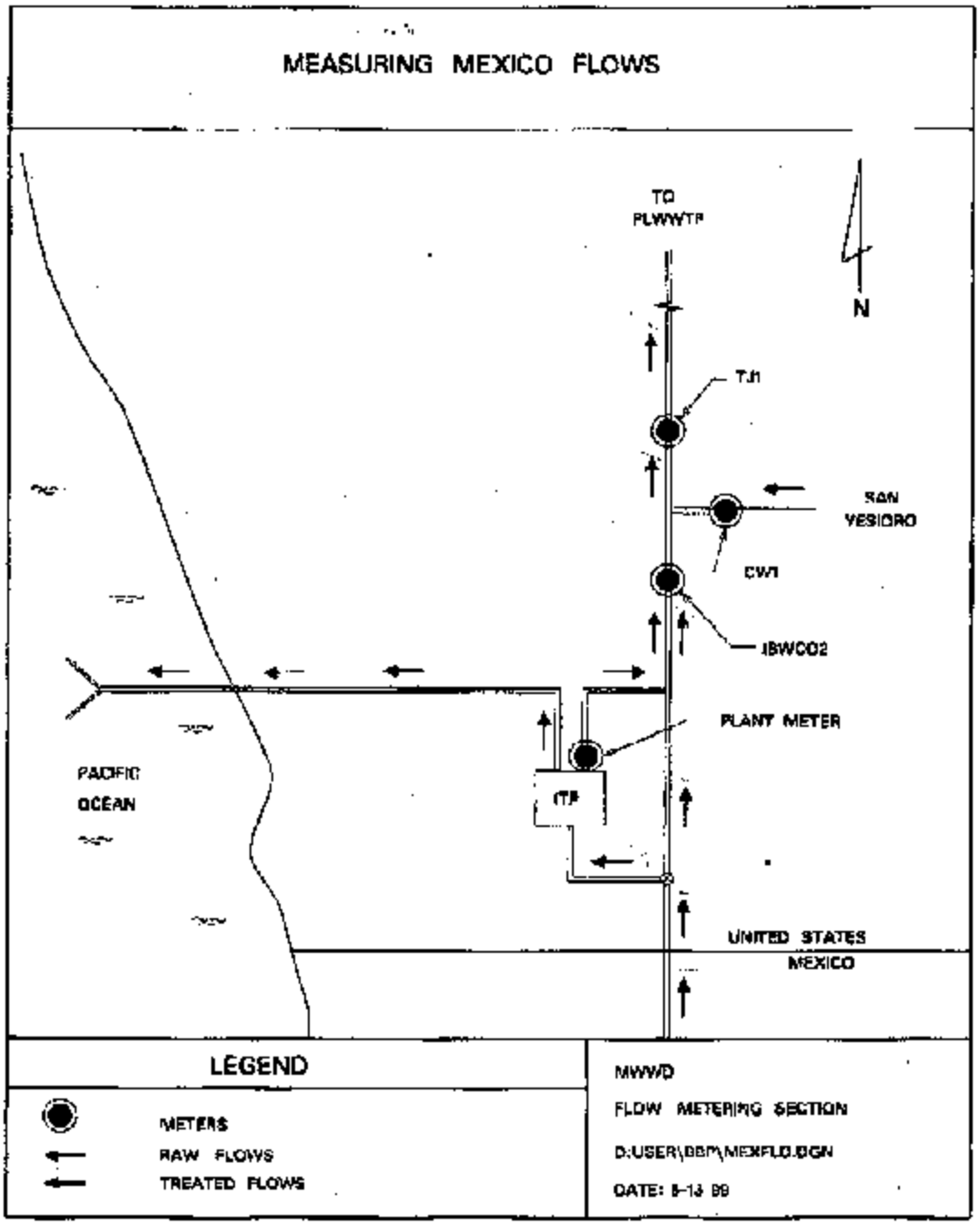
A. Flows

Flow measurements for the Tijuana Interceptor.

Historically, the flows for the Tijuana Interceptor have included the flow meter readings from the TJ1 and IBWC02 meters (see Figure 1.). The IBWC02 meter measured all flows through the interceptor and included only sewage flows to the Metro system from Mexico. However, the IBWC02 meter was disconnected by the International Boundary Water Commission as of December 1st, 2000 and there is no intent for re-establishing it. No data from this meter was submitted in 2001. The IBWC staff have repeatedly stated that it is their intention that no Tijuana wastewater or International Treatment Plant effluent will be discharged into the interceptor. Flow data for 2001 indicates that the interceptor carried no sewage flows from those sources for the entire year.

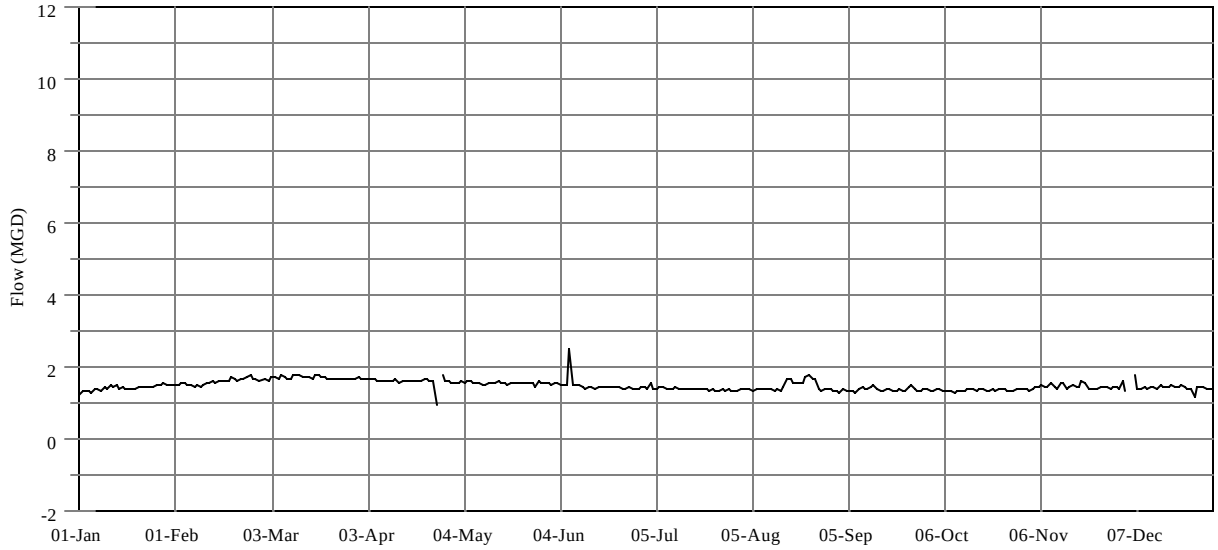
The TJ1 meter has measured flows through the interceptor, only it included the contributions from the San Ysidro lateral as well as the flows from Mexico or the IWTP if discharged. A new meter (designated CW1) was installed and in operation as of June 1999. The interceptor flow has consist of wastewater treated effluent from the South Bay International Treatment Plant and excess raw wastewater flows from Mexico, if any. The TJ1 flows minus the CW1 flows would nominally yield flows equal to that of the IBWC02 meter, i.e. the emergency connection flows from Mexico. We have included a table and graph of the flows calculated by subtracting the CW1 meter readings from the TJ1 meter readings. It is felt that this gives the most reliable data on flows from the Tijuana Intercept.

Figure 1. Tijuana Interceptor and location of flow meters.



Tijuana Interceptor

TJ1 Meter Flows - 2001



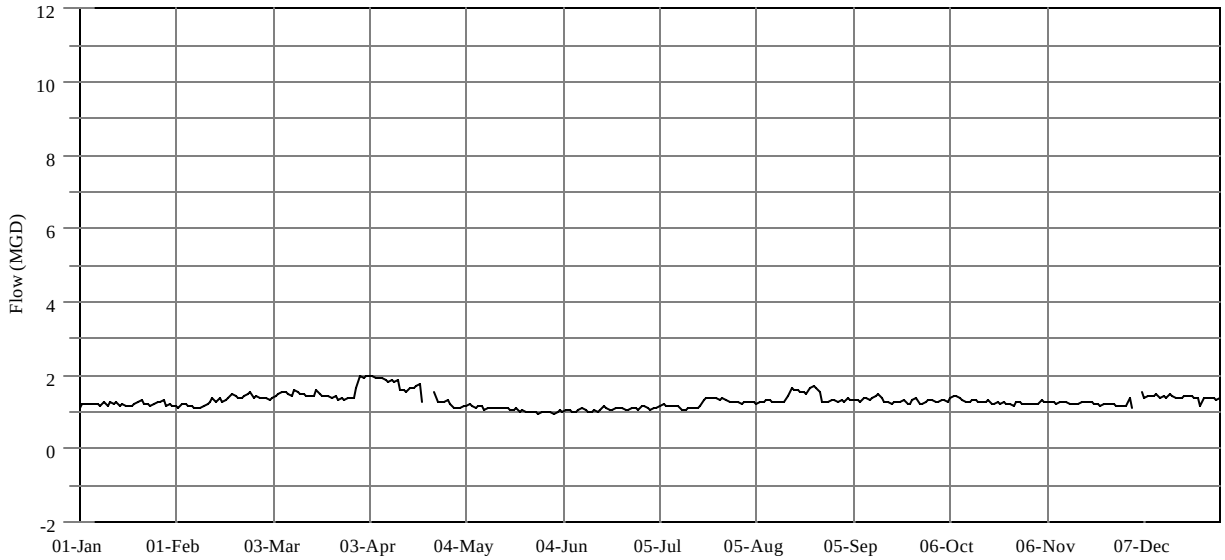
TIJUANA INTERCEPTOR- 2001 Flows (MGD)
TJ1 Meter

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	1.26	1.51	1.68	1.69	1.59	1.52	1.44	1.41	1.38	1.38	1.38	1.38	
2	1.37	1.51	1.65	1.68	1.59	1.56	1.40	1.40	1.31	1.38	1.37	1.64	
3	1.36	1.57	1.73	1.67	1.61	1.58	1.58	1.42	1.42	1.38	1.39	1.36	
4	1.33	1.57	1.72	1.68	1.56	1.54	1.39	1.42	1.37	1.40	1.45		
5	1.30	1.54	1.71	1.68	1.61	1.53	1.42	1.37	1.37	1.37	1.48		
6	1.39	1.51	1.78	1.61	1.60	1.54	1.44	1.41	1.37	1.34	1.52	1.78	
7	1.42	1.49	1.72	1.65	1.58	2.54	1.48	1.39	1.32	1.34	1.48	1.40	
8	1.37	1.51	1.69	1.60	1.59	1.50	1.43	1.40	1.38	1.34	1.45	1.42	
9	1.47	1.49	1.67	1.61	1.57	1.53	1.41	1.43	1.44	1.31	1.55	1.45	
10	1.41	1.54	1.78	1.64	1.52	1.51	1.42	1.40	1.41	1.34	1.49	1.41	
11	1.53	1.56	1.81	1.65	1.53	1.46	1.47	1.38	1.44	1.38	1.40	1.46	
12	1.47	1.56	1.78	1.68	1.57	1.43	1.43	1.35	1.48	1.36	1.59	1.45	
13	1.50	1.63	1.75	1.59	1.56	1.44	1.42	1.39	1.53	1.41	1.58	1.42	
14	1.41	1.55	1.73	1.62	1.58	1.44	1.42	1.38	1.41	1.42	1.43	1.54	
15	1.47	1.62	1.72	1.60	1.60	1.43	1.40	1.48	1.35	1.39	1.44	1.46	
16	1.42	1.63	1.68	1.66	1.57	1.47	1.41	1.70	1.36	1.37	1.50	1.44	
17	1.43	1.63	1.81	1.62	1.56	1.45	1.41	1.68	1.40	1.40	1.45	1.47	
18	1.42	1.63	1.81	1.63	1.54	1.44	1.41	1.60	1.40	1.41	1.47	1.53	
19	1.42	1.73	1.74	1.64	1.56	1.47	1.41	1.56	1.36	1.36	1.66	1.49	
20	1.47	1.69	1.73	1.62	1.56	1.46	1.40	1.59	1.35	1.38	1.60	1.48	
21	1.49	1.63	1.71	1.68	1.56	1.47	1.40	1.56	1.39	1.39	1.41	1.49	
22	1.46	1.69	1.70	1.67	1.59	1.46	1.38	1.73	1.33	1.38	1.42	1.49	
23	1.48	1.70	1.68	1.63	1.58	1.44	1.40	1.77	1.35	1.40	1.40	1.43	
24	1.46	1.73	1.69	1.63	1.57	1.40	1.38	1.71	1.44	1.38	1.42	1.42	
25	1.49	1.77	1.71	0.96	1.56	1.43	1.38	1.69	1.50	1.39	1.47	1.20	
26	1.53	1.67	1.68		1.58	1.45	1.39	1.39	1.39	1.35	1.45	1.47	
27	1.54	1.70	1.70	1.82	1.49	1.42	1.37	1.37	1.38	1.37	1.46	1.49	
28	1.57	1.64	1.69	1.63	1.60	1.43	1.39	1.40	1.36	1.38	1.42	1.47	
29	1.51		1.67	1.61	1.56	1.42	1.38	1.40	1.41	1.40	1.44	1.42	
30	1.53		1.71	1.56	1.58	1.45	1.38	1.39	1.39	1.42	1.44	1.39	ANNUAL
31	1.51		1.73		1.55		1.35	1.36		1.39		1.42	SUMMARY
AVE	1.45	1.61	1.72	1.62	1.57	1.51	1.41	1.48	1.39	1.38	1.47	1.46	1.51
MIN	1.26	1.49	1.65	0.96	1.49	1.40	1.35	1.35	1.31	1.31	1.38	1.20	0.96
MAX	1.57	1.77	1.81	1.82	1.61	2.54	1.58	1.77	1.53	1.42	1.66	1.78	2.54
TOTAL	44.79	45.00	53.36	47.01	48.67	45.20	43.78	45.92	41.82	42.71	44.02	42.27	544.54

NOTE: Missing values indicate that the meters were Out of Service and therefore the flow data was not available.

Tijuana Interceptor

CW1 Meter Flows - 2001



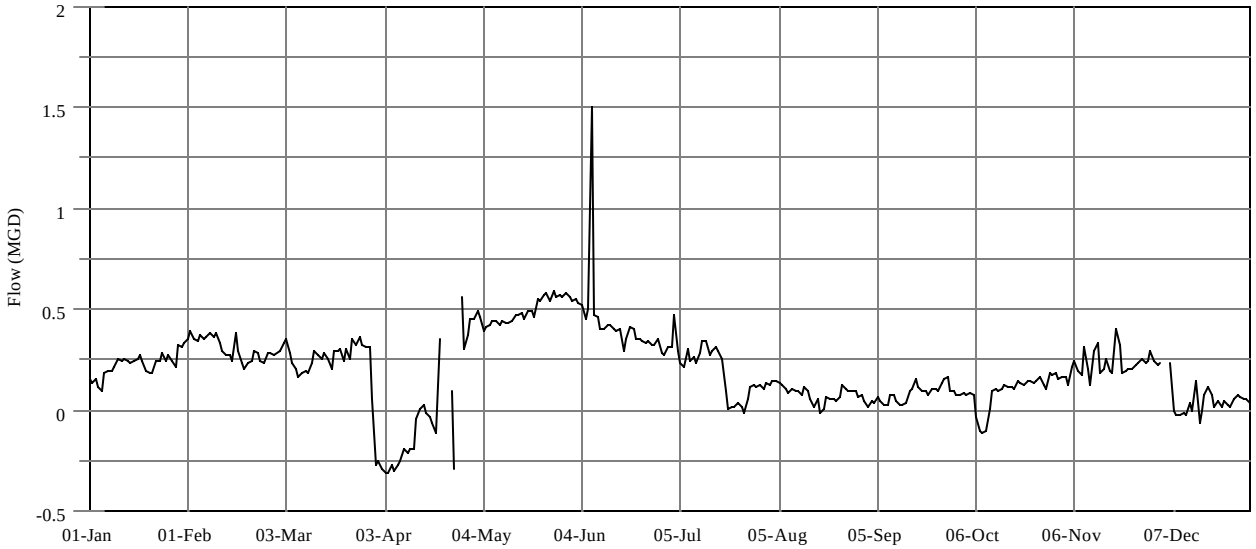
CW1 Meter

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	1.10	1.16	1.39	1.94	1.14	0.97	1.13	1.27	1.33	1.30	1.23	1.14	
2	1.23	1.12	1.32	1.97	1.10	1.00	1.08	1.27	1.29	1.30	1.21	1.42	
3	1.20	1.22	1.38	1.98	1.15	1.04	1.11	1.28	1.38	1.30	1.23	1.12	
4	1.21	1.23	1.44	1.99	1.17	1.02	1.09	1.28	1.33	1.31	1.32		
5	1.20	1.17	1.48	1.95	1.20	1.08	1.19	1.24	1.30	1.29	1.26		
6	1.21	1.16	1.57	1.91	1.18	1.03	1.23	1.28	1.32	1.37	1.28	1.55	
7	1.22	1.13	1.55	1.92	1.14	1.03	1.19	1.28	1.30	1.44	1.29	1.40	
8	1.17	1.13	1.51	1.85	1.15	1.03	1.18	1.31	1.36	1.45	1.28	1.45	
9	1.25	1.13	1.47	1.80	1.15	1.07	1.15	1.33	1.36	1.42	1.24	1.47	
10	1.15	1.16	1.59	1.85	1.08	1.10	1.18	1.30	1.34	1.34	1.28	1.42	
11	1.28	1.23	1.58	1.84	1.10	1.06	1.19	1.29	1.39	1.28	1.27	1.48	
12	1.21	1.27	1.49	1.87	1.14	1.00	1.08	1.27	1.45	1.26	1.30	1.42	
13	1.26	1.36	1.48	1.63	1.12	1.02	1.08	1.27	1.51	1.31	1.24	1.42	
14	1.18	1.28	1.47	1.61	1.11	1.04	1.14	1.28	1.37	1.31	1.24	1.39	
15	1.22	1.38	1.44	1.57	1.13	1.03	1.10	1.42	1.26	1.27	1.24	1.52	
16	1.16	1.25	1.42	1.67	1.09	1.07	1.09	1.68	1.25	1.26	1.24	1.45	
17	1.16	1.34	1.60	1.65	1.11	1.15	1.11	1.62	1.24	1.28	1.26	1.39	
18	1.17	1.40	1.52	1.69	1.05	1.09	1.16	1.61	1.28	1.30	1.29	1.41	
19	1.22	1.52	1.45	1.75	1.07	1.06	1.31	1.55	1.27	1.21	1.26	1.41	
20	1.28	1.46	1.43	1.27	1.10	1.06	1.39	1.53	1.25	1.25	1.27	1.46	
21	1.31	1.38	1.46		1.01	1.11	1.39	1.50	1.32	1.27	1.22	1.44	
22	1.22	1.40	1.40		1.05	1.11	1.37	1.67	1.22	1.24	1.22	1.47	
23	1.23	1.42	1.42		1.01	1.09	1.36	1.72	1.25	1.25	1.19	1.38	
24	1.18	1.49	1.34	1.53	0.99	1.06	1.36	1.64	1.34	1.24	1.21	1.39	
25	1.24	1.54	1.39	1.25	1.02	1.09	1.38	1.57	1.37	1.24	1.24	1.18	
26	1.26	1.39	1.32	1.28	0.99	1.12	1.32	1.29	1.24	1.18	1.22	1.42	
27	1.30	1.42	1.38	1.26	0.93	1.10	1.26	1.27	1.22	1.25	1.20	1.41	
28	1.35	1.36	1.38	1.33	1.03	1.08	1.26	1.30	1.27	1.27	1.19	1.41	
29	1.19		1.36	1.24	1.00	1.14	1.26	1.31	1.32	1.22	1.19	1.37	
30	1.22		1.65	1.11	1.00	1.17	1.26	1.32	1.31	1.24	1.15	1.33	ANNUAL
31	1.18		2.00		0.99		1.24	1.28		1.20		1.39	SUMMARY
AVE	1.22	1.30	1.47	1.66	1.08	1.07	1.22	1.39	1.31	1.29	1.24	1.40	1.30
MIN	1.10	1.12	1.32	1.11	0.93	0.98	1.08	1.24	1.22	1.18	1.15	1.12	0.93
MAX	1.35	1.54	2.00	1.99	1.20	1.17	1.39	1.72	1.51	1.45	1.32	1.55	2.00
TOTAL	37.76	36.50	45.68	44.71	33.50	32.06	37.66	43.23	39.43	39.84	37.25	40.51	468.13

NOTE: Missing values indicate that the meters were Out of Service and therefore the flow data was not available.

Tijuana Interceptor

TJ1-CW1 Meter Flows - 2001



TIJUANA INTERCEPTOR- 2001 Flows (MGD)

TJ1-CW1 Meter

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	0.16	0.35	0.29	-0.25	0.45	0.54	0.31	0.14	0.05	0.08	0.15	0.24	
2	0.14	0.39	0.33	-0.29	0.49	0.55	0.32	0.13	0.02	0.08	0.16	0.23	
3	0.16	0.35	0.35	-0.31	0.46	0.53	0.47	0.15	0.04	0.08	0.17	0.23	
4	0.12	0.34	0.28	-0.31	0.39	0.52	0.30	0.15	0.03	0.09	0.13		
5	0.10	0.37	0.23	-0.27	0.41	0.45	0.23	0.13	0.06	0.08	0.22		
6	0.18	0.35	0.21	-0.30	0.42	0.51	0.21	0.13	0.05	-0.04	0.24	0.23	
7	0.20	0.36	0.17	-0.27	0.44	1.51	0.30	0.11	0.02	-0.10	0.19	0.00	
8	0.20	0.38	0.18	-0.25	0.44	0.47	0.25	0.09	0.03	-0.11	0.18	-0.03	
9	0.22	0.36	0.20	-0.19	0.42	0.46	0.27	0.10	0.08	-0.11	0.31	-0.02	
10	0.26	0.38	0.19	-0.21	0.44	0.40	0.23	0.10	0.08	0.00	0.20	-0.01	
11	0.25	0.33	0.23	-0.19	0.43	0.41	0.28	0.10	0.05	0.10	0.13	-0.02	
12	0.26	0.29	0.29	-0.19	0.43	0.43	0.34	0.08	0.03	0.11	0.29	0.03	
13	0.24	0.27	0.27	-0.04	0.44	0.42	0.34	0.12	0.03	0.10	0.34	0.00	
14	0.23	0.27	0.26	0.01	0.47	0.40	0.28	0.10	0.04	0.11	0.18	0.15	
15	0.25	0.24	0.28	0.03	0.47	0.39	0.30	0.05	0.09	0.12	0.20	-0.06	
16	0.26	0.38	0.26	-0.01	0.48	0.40	0.32	0.02	0.11	0.12	0.26	-0.01	
17	0.27	0.29	0.21	-0.03	0.45	0.30	0.30	0.06	0.16	0.12	0.20	0.08	
18	0.25	0.23	0.29	-0.06	0.49	0.36	0.26	-0.01	0.12	0.11	0.19	0.12	
19	0.20	0.21	0.29	-0.11	0.49	0.41	0.10	0.01	0.09	0.15	0.40	0.07	
20	0.19	0.23	0.30	0.35	0.46	0.40	0.01	0.07	0.09	0.14	0.33	0.02	
21	0.18	0.25	0.25		0.55	0.35	0.01	0.06	0.08	0.12	0.19	0.05	
22	0.24	0.29	0.30		0.54	0.35	0.02	0.06	0.10	0.14	0.20	0.02	
23	0.25	0.28	0.26		0.57	0.35	0.03	0.05	0.11	0.14	0.20	0.05	
24	0.28	0.24	0.35	0.10	0.58	0.34	0.02	0.07	0.10	0.14	0.21	0.03	
25	0.25	0.23	0.32	-0.29	0.54	0.35	-0.01	0.13	0.14	0.14	0.23	0.01	
26	0.27	0.28	0.36	-1.28	0.59	0.33	0.06	0.10	0.16	0.17	0.23	0.05	
27	0.24	0.28	0.32	0.56	0.56	0.33	0.11	0.10	0.16	0.13	0.26	0.08	
28	0.22	0.28	0.31	0.30	0.57	0.35	0.12	0.10	0.10	0.11	0.24	0.07	
29	0.32		0.31	0.37	0.56	0.28	0.12	0.09	0.09	0.18	0.25	0.05	
30	0.31		0.06	0.45	0.58	0.28	0.12	0.07	0.08	0.18	0.30	0.06	ANNUAL
31	0.33		-0.27		0.56		0.11	0.08		0.19		0.03	SUMMARY
AVE	0.23	0.30	0.25	-0.10	0.49	0.44	0.20	0.09	0.08	0.09	0.23	0.06	0.20
MIN	0.10	0.21	-0.27	-1.28	0.39	0.28	-0.01	-0.01	0.02	-0.11	0.13	-0.06	-1.28
MAX	0.33	0.39	0.36	0.56	0.59	1.51	0.47	0.15	0.16	0.19	0.40	0.24	1.51
TOTAL	7.03	8.50	7.68	-2.68	15.17	13.15	6.12	2.69	2.38	2.87	6.76	1.76	71.43

NOTE: Missing values indicate that the meters were Out of Service and therefore the flow data was not available.

B. Tijuana Interceptor Data

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL TIJUANA INTERCEPTOR
Metals and Daily Analysis

From: 01-JAN-2001 To: 31-DEC-2001

Analyte:	MDL	Units:	TJ INTERCEPT JANUARY -2001 Average
pH		PH	7.95
Grease/oil	1.4	MG/L	2.1
Solids- Settleable	.1	ML/L	0.75
Solids- Floatable	.1	MG/L	ND
Solids- Total	100	MG/L	1450
Solids- Total Volatile	100	MG/L	209
Solids- Total Suspended	1.6	MG/L	12
Solids- Volatile Suspended	1.6	MG/L	7
Solids- Total Dissolved	42	MG/L	1440
Conductivity	.086	UMHOS/CM	2280
Turbidity		NTU	6
BOD (5-day)	2	MG/L	<24
Chemical Oxygen Demand	22	MG/L	82
Total Organic Carbon		MG/L	NA
Antimony	23	UG/L	26.5
Arsenic	.18	UG/L	6.05
Barium	10	UG/L	75.9
Beryllium	.39	UG/L	ND
Cadmium	1	UG/L	ND
Chromium	5	UG/L	18.3
Copper	4	UG/L	94
Iron	30	UG/L	612
Lead	18	UG/L	ND
Manganese	4	UG/L	382
Mercury	.27	UG/L	ND
Molybdenum	3	UG/L	9.14
Nickel	14	UG/L	15.8
Selenium	.4	UG/L	0.94
Silver	6.6	UG/L	ND
Thallium	40	UG/L	ND
Vanadium	7	UG/L	10.2
Zinc	4	UG/L	26
Calcium	.08	MG/L	148
Lithium	.01	MG/L	0.07
Magnesium	.02	MG/L	48.1
Potassium	2	MG/L	17.4
Sodium	.3	MG/L	273
Ammonia-N	.2	MG/L	10.5
Bicarbonate-Alkalinity	8	MG/L	403
Chloride	.8	MG/L	309
Fluoride	.03	MG/L	0.88
Sulfate	.5	MG/L	371
Cyanides,Total	.002	MG/L	0.029

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

NOTE: According to the International Boundary Water Commission’s staff reports and our flow meter section’s data, there was very little flow of wastewater through the Tijuana Interceptor for 2001. Consequently, for most of the year samples could not be obtained. What limited data there may be is considered to be “non-representative”.

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL TIJUANA INTERCEPTOR
Radioactivity

From: 01-JAN-2001 To: 31-DEC-2001

Sampled by: NDL,A4A
Analyzed by: Truesdail Labs Inc.

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
TJ INTERCEPT	JANUARY -2001	2.6 ± 1.6	21.4 ± 4.3
AVERAGE		2.6 ± 1.6	21.4 ± 4.3

ND= not detected
NA= not analyzed
NS= not sampled
NR= Not Required

Units in picocuries/liter (pCi/L)

NOTE: According to the International Boundary Water Commission’s staff reports and our flow meter section’s data, there was very little flow of wastewater through the Tijuana Interceptor for 2001. Consequently, for most of the year samples could not be obtained. What limited data there may be is considered to be “non-representative”.

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL TIJUANA INTERCEPT - Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2001 To 31-DEC-2001

Sampling: LC,MC,JN,VB,MV,SKB,HHD,NC
Analysis: CW,TB,KD

TIJUANA INTERCEPT

Date:			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Aldrin	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BHC, Alpha isomer	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BHC, Beta isomer	30	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BHC, Delta isomer	30	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BHC, Gamma isomer	10	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alpha (cis) Chlordane	14	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gamma (trans) Chlordane	14	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alpha Chlordene		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gamma Chlordene		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cis Nonachlor		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	40	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endosulfan Sulfate		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alpha Endosulfan	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beta Endosulfan		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin	30	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin aldehyde	23	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Heptachlor	3	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Heptachlor epoxide	30	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mirex	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o,p-DDD	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o,p-DDE	40	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o,p-DDT	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oxychlordane	10	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1016	600	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1221		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1232		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1242	70	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1248		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1254		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1260	300	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB 1262		NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p,p-DDD	30	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p,p-DDE	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p,p-DDT	20	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toxaphene	240	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trans Nonachlor	10	NG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aldrin + Dieldrin	40	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	40	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	14	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	600	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	20	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Heptachlors	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	600	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0

nd=not detected; NS=not sampled; NA=not analyzed

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

POINT LOMA WASTEWATER TREATMENT PLANT

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

From 01-JAN-2001 To 31-DEC-2001

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC
Analysis: CW,TB,KD

Analyte	MDL	Units	OCT Avg	YEAR Avg
Demeton O	.09	UG/L	NS	NS
Demeton S	.05	UG/L	NS	NS
Diazinon	.07	UG/L	NS	NS
Guthion	.21	UG/L	NS	NS
Malathion	.04	UG/L	NS	NS
Parathion	.03	UG/L	NS	NS
Thiophosphorus Pesticides	.21	UG/L	NS	NS
Demeton -O, -S	.09	UG/L	NS	NS
Total Organophosphorus Pesticides	.21	UG/L	NS	NS

Additional Analytes....				
Tetraethylpyrophosphate		UG/L	NS	NS
Dichlorvos		UG/L	NS	NS
Mervinphos, e isomer		UG/L	NS	NS
Mervinphos, z isomer		UG/L	NS	NS
Ethoprop		UG/L	NS	NS
Phorate		UG/L	NS	NS
Sulfotepp		UG/L	NS	NS
Dibrom		UG/L	NS	NS
Disulfoton		UG/L	NS	NS
Monocrotophos		UG/L	NS	NS
Dimethoate		UG/L	NS	NS
Ronnel		UG/L	NS	NS
methyl parathion		UG/L	NS	NS
Trichloronate		UG/L	NS	NS
Chlorpyrifos	.05	UG/L	NS	NS
Dichlofenthion		UG/L	NS	NS
Merphos		UG/L	NS	NS
Tokuthion		UG/L	NS	NS
Stirophos		UG/L	NS	NS
Bolstar		UG/L	NS	NS
Fensulfothion		UG/L	NS	NS
EPN		UG/L	NS	NS
Coumaphos		UG/L	NS	NS

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL TIJUANA INTERCEPT - Tributyl Tin analysis

From 01-JAN-2001 To 31-DEC-2001

Sampling: LC,JF,JM,KW,PG,BGB Analysis:

TIJUANA INTERCEPT

Analyte	MDL	Units	JAN Avg	FEB Avg	MAR Avg	APR Avg	MAY Avg	JUN Avg	JUL Avg	AUG Avg	SEP Avg	OCT Avg	NOV Avg	DEC Avg	^YEAR Average
Dibutyl tin	.007	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Monobutyl Tin	.01	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tributyl tin	.005	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

*= Dibutyl Tin used as Surrogate Standard from Jan thru April.

nd=not detected
NS=not sampled
NA=not analyzed