

California Regional Water Quality Control Board, Colorado River Basin
Prosecution Team Evidence
on the matter of
Administrative Civil Liability Complaint R7-2014-0041
Exhibit 21

NBC Wastewater Flow Data

Angel, Jose@Waterboards

Sent: Monday, April 07, 2014 2:55 AM**To:** Rosanna B. Moore [RBMoore@brawley-ca.gov]

Good morning Rosanna. I hate to bother you with this, but I'm on a tight deadline and was wondering whether you (or your staff) can provide me with the available Average Monthly Wastewater discharged from NBC into the City collection system? I already got data from your staff but it only cover through 2009. I specifically need the "average monthly flow" the city uses for billing purposes for the period covering from Jan 2010 through December 2013. I don't need the rest of the billing data. I would greatly appreciate any consideration you can give to expedite this request. If the data are available in electronic format, it would be even better. Thanks for your considerations.

Re: NBC Wastewater Flow Data

Rosanna B. Moore [RBMoore@brawley-ca.gov]

Sent: Monday, April 07, 2014 6:29 AM

To: Angel, Jose@Waterboards

I will work on this morning.

On Apr 7, 2014, at 2:55 AM, "Angel, Jose@Waterboards" <Jose.Angel@waterboards.ca.gov> wrote:

Good morning Rosanna. I hate to bother you with this, but I'm on a tight deadline and was wondering whether you (or your staff) can provide me with the available Average Monthly Wastewater discharged from NBC into the City collection system? I already got data from your staff but it only cover through 2009. I specifically need the "average monthly flow" the city uses for billing purposes for the period covering from Jan 2010 through December 2013. I don't need the rest of the billing data. I would greatly appreciate any consideration you can give to expedite this request. If the data are available in electronic format, it would be even better. Thanks for your considerations.

Angel, Jose@Waterboards

From: Angel, Jose@Waterboards
Sent: Monday, April 07, 2014 8:58 AM
To: Rosanna B. Moore
Subject: Re: NBC Wastewater Flow Data

Much appreciated. Thanks.

Sent from my iPhone

On Apr 7, 2014, at 6:30 AM, "Rosanna B. Moore" <RBMoore@brawley-ca.gov> wrote:

I will work on this morning.

On Apr 7, 2014, at 2:55 AM, "Angel, Jose@Waterboards" <Jose.Angel@waterboards.ca.gov> wrote:

Good morning Rosanna. I hate to bother you with this, but I'm on a tight deadline and was wondering whether you (or your staff) can provide me with the available Average Monthly Wastewater discharged from NBC into the City collection system? I already got data from your staff but it only cover through 2009. I specifically need the "average monthly flow" the city uses for billing purposes for the period covering from Jan 2010 through December 2013. I don't need the rest of the billing data. I would greatly appreciate any consideration you can give to expedite this request. If the data are available in electronic format, it would be even better. Thanks for your considerations.

Angel, Jose@Waterboards

From: Rosanna B. Moore <RBMoore@brawley-ca.gov>
Sent: Monday, April 07, 2014 2:13 PM
To: Angel, Jose@Waterboards
Subject: FW: Beef Plant sewer charges
Attachments: Nat'l Beef Rates and Calcs - 0113 monitoring results.xls; Nat'l Beef Rates and Calcs - 0111 monitoring results.xls; Nat'l Beef Rates and Calcs - 0112 monitoring results.xls; Nat'l Beef Rates and Calcs - 0213 monitoring results.xls; Nat'l Beef Rates and Calcs - 0211 monitoring results(1)(1).xls; Nat'l Beef Rates and Calcs - 0212 monitoring results.xls; Nat'l Beef Rates and Calcs - 0313 monitoring results.xls; Nat'l Beef Rates and Calcs - 0311 monitoring results(1)(1).xls; Nat'l Beef Rates and Calcs - 0312 monitoring results.xls; Nat'l Beef Rates and Calcs - 0411 monitoring results(1)(1).xls; Nat'l Beef Rates and Calcs - 0412REVISED monitoring results.xls; Nat'l Beef Rates and Calcs - 0511 monitoring results(1)(1).xls; Nat'l Beef Rates and Calcs - 0512 monitoring results.xls; Nat'l Beef Rates and Calcs - 0513 monitoring results.xls; Nat'l Beef Rates and Calcs - 0811 monitoring results REVISED .xls; Nat'l Beef Rates and Calcs - 0611 Revised(1)(1).xls; Nat'l Beef Rates and Calcs - 0612 monitoring results.xls; Nat'l Beef Rates and Calcs - 0613 monitoring results.xls; Nat'l Beef Rates and Calcs - 0711 monitoring results(1)(1).xls; Nat'l Beef Rates and Calcs - 0712 monitoring results.xls; Nat'l Beef Rates and Calcs - 0713 monitoring results.xls; Nat'l Beef Rates and Calcs - 1213 monitoring results.xls; Nat'l Beef Rates and Calcs - 0812 monitoring results.xls; Nat'l Beef Rates and Calcs - 0813 monitoring results.xls; Nat'l Beef Rates and Calcs - 0911 monitoring results.xls; Nat'l Beef Rates and Calcs - 0912 monitoring results.xls; Nat'l Beef Rates and Calcs - 0913 monitoring results.xls; Nat'l Beef Rates and Calcs - 1001 monitoring results.xls; Nat'l Beef Rates and Calcs - 1002 monitoring results.xls; Nat'l Beef Rates and Calcs - 1004 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1005 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1006 monitoring results(corr).xls; Nat'l Beef Rates and Calcs - 1007 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1009 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1010 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1011 monitoring results.xls; Nat'l Beef Rates and Calcs - 1012 monitoring results.xls; Nat'l Beef Rates and Calcs - 1013 monitoring results.xls; Nat'l Beef Rates and Calcs - 1111 monitoring results.xls; Nat'l Beef Rates and Calcs - 1112 monitoring results.xls; Nat'l Beef Rates and Calcs - 1113 monitoring results.xls; Nat'l Beef Rates and Calcs - 1211 monitoring results.xls; Nat'l Beef Rates and Calcs - 1212 monitoring results.xls; Nat'l Beef Rates and Calcs - 1012 monitoring results.xls; Nat'l Beef Rates and Calcs - 1008 monitoring results(1).xls; Nat'l Beef Rates and Calcs - 1011 monitoring results.xls; Nat'l Beef Rates and Calcs - 1003 monitoring results(1).xls

Please see attached and let me know if you have questions.

Rosanna

From: Ruby Walla
Sent: Monday, April 07, 2014 10:04 AM
To: Rosanna B. Moore
Cc: Yazmin Arellano
Subject: Fwd: Beef Plant sewer charges

Ruby D. Walla
Finance Director

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results -December 2010

Total monthly flow (gals) (November)	25,567,000
Days in month (billing period)	30
Average daily flow (gpd)	866,742
Average concentration BOD (mg/l)	169.8
Average concentration TSS (mg/l)	424
Average concentration NH3 (mg/l)	34.02

Flow calculation

Average daily flow = Total flow / Number of Days =	852,233
Unit cost per gallon per day (2010 rates)	<u>\$0.0395</u>
Average daily flow x Unit cost =	\$33,705.54

BOD calculation

Average concentration from sampling (mg/l)	169.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1206.87
Unit cost per lbs/day (2010 rates)	<u>\$9.21</u>
Lbs/day x Unit cost =	\$11,116.94

TSS calculation

Average concentration from sampling (mg/l)	424
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	3013.63
Unit cost per lbs/day (2010 rates)	<u>\$10.21</u>
Lbs/day x Unit cost =	\$30,756.72

NH3 calculation

Average concentration from sampling (mg/l)	34.02
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	241.8014365
Unit cost per lbs/day (2010 rates)	<u>\$21.98</u>
Lbs/day x Unit cost =	\$5,315.63

Total monthly charge >>>> \$80,894.83

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - November 2011

Total monthly flow (gals) November	54,120,920
Days in month (billing period)	30
Average daily flow (gpd)	1,708,086
Average concentration BOD (mg/l)	77.88
Average concentration TSS (mg/l)	47.32
Average concentration NH3 (mg/l)	18.098

Flow calculation

Average daily flow = Total flow / Number of Days =	1,804,031
Unit cost per gallon per day (2011 rates)	\$0.0480
Average daily flow x Unit cost =	\$86,637.84

BOD calculation

Average concentration from sampling (mg/l)	77.88
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1171.75
Unit cost per lbs/day (2011 rates)	\$11.19
Lbs/day x Unit cost =	\$13,106.29

TSS calculation

Average concentration from sampling (mg/l)	47.32
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	711.96
Unit cost per lbs/day (2011 rates)	\$12.39
Lbs/day x Unit cost =	\$8,823.18

NH3 calculation

Average concentration from sampling (mg/l)	18.098
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	272.295554
Unit cost per lbs/day (2011 rates)	\$26.69
Lbs/day x Unit cost =	\$7,268.71

Total monthly charge >>>> \$115,836.03

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - Nov.

Total monthly flow (gals)	47,870,033
Days in month (billing period)	30
Average daily flow (gpd)	1,490,945
Average concentration BOD (mg/l)	105.06
Average concentration TSS (mg/l)	100.5
Average concentration NH3 (mg/l)	16.94

Flow calculation

Average daily flow = Total flow / Number of Days =	1,595,668
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$90,154.47

BOD calculation

Average concentration from sampling (mg/l)	105.06
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1398.12
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$18,398.01

TSS calculation

Average concentration from sampling (mg/l)	100.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1337.44
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$19,499.62

NH3 calculation

Average concentration from sampling (mg/l)	16.94
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	225.4353038
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$7,079.78

Total monthly charge	>>>>	\$135,131.89
4% Tax		\$5,405.28
Total Due		\$140,537.16

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - January 2011

Total monthly flow (gals) (January)	27,974,000
Days in month (billing period)	31
Average daily flow (gpd)	858,000
Average concentration BOD (mg/l)	282
Average concentration TSS (mg/l)	3801
Average concentration NH3 (mg/l)	32.76

Flow calculation

Average daily flow = Total flow / Number of Days =	902,387
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$35,689.11

BOD calculation

Average concentration from sampling (mg/l)	282
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	2122.31
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$19,549.29

TSS calculation

Average concentration from sampling (mg/l)	3801
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	28605.98
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$291,948.59

NH3 calculation

Average concentration from sampling (mg/l)	32.76
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	246.5487588
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$5,419.99

Total monthly charge >>>> \$352,606.98

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - December

Total monthly flow (gals) December	47,973,109
Days in month (billing period)	31
Average daily flow (gpd)	1,710,680
Average concentration BOD (mg/l)	99.05
Average concentration TSS (mg/l)	76.46
Average concentration NH3 (mg/l)	31.53

Flow calculation

Average daily flow = Total flow / Number of Days =	1,547,520
Unit cost per gallon per day (2011 rates)	\$0.0480
Average daily flow x Unit cost =	\$74,319.00

BOD calculation

Average concentration from sampling (mg/l)	99.05
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1278.37
Unit cost per lbs/day (2011 rates)	\$11.19
Lbs/day x Unit cost =	\$14,298.83

TSS calculation

Average concentration from sampling (mg/l)	76.46
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	986.82
Unit cost per lbs/day (2011 rates)	\$12.39
Lbs/day x Unit cost =	\$12,229.45

NH3 calculation

Average concentration from sampling (mg/l)	31.53
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	406.9360754
Unit cost per lbs/day (2011 rates)	\$26.69
Lbs/day x Unit cost =	\$10,862.82

Total monthly charge >>>> \$111,710.12

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - Dec.

Total monthly flow (gals)	41,083,552
Days in month (billing period)	31
Average daily flow (gpd)	1,486,598
Average concentration BOD (mg/l)	42.7
Average concentration TSS (mg/l)	146.5
Average concentration NH3 (mg/l)	7.42

Flow calculation

Average daily flow = Total flow / Number of Days =	1,325,276
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$74,877.46

BOD calculation

Average concentration from sampling (mg/l)	42.7
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	471.95
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$6,210.48

TSS calculation

Average concentration from sampling (mg/l)	146.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1619.24
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$23,608.13

NH3 calculation

Average concentration from sampling (mg/l)	7.42
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	82.01178167
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$2,575.57

Total monthly charge	>>>>	\$107,271.64
4% Tax		\$4,290.87
Total Due		\$111,562.51

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - February 2011

Total monthly flow (gals) (February)	24,751,000
Days in month (billing period)	28
Average daily flow (gpd)	893,607
Average concentration BOD (mg/l)	389.25
Average concentration TSS (mg/l)	2734.25
Average concentration NH3 (mg/l)	41.31

Flow calculation

Average daily flow = Total flow / Number of Days =	883,964
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$34,960.49

BOD calculation

Average concentration from sampling (mg/l)	389.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	2869.65
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$26,433.36

TSS calculation

Average concentration from sampling (mg/l)	2734.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	20157.61
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$205,725.71

NH3 calculation

Average concentration from sampling (mg/l)	41.31
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	304.5481491
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$6,695.02

Total monthly charge >>>> \$273,814.58

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - February

Total monthly flow (gals)	49,321,561
Days in month (billing period)	29
Average daily flow (gpd)	1,552,031
Average concentration BOD (mg/l)	32.9
Average concentration TSS (mg/l)	64.12
Average concentration NH3 (mg/l)	20.8

Flow calculation

Average daily flow = Total flow / Number of Days =	1,700,743
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$81,677.52

BOD calculation

Average concentration from sampling (mg/l)	32.9
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	466.66
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$5,219.69

TSS calculation

Average concentration from sampling (mg/l)	64.12
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	909.49
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$11,271.17

NH3 calculation

Average concentration from sampling (mg/l)	20.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	295.0313734
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$7,875.62

Total monthly charge	>>>>	\$106,044.00
4% Tax		\$4,241.76
Total Due		\$110,285.76

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - Jan.

Total monthly flow (gals)	43,541,992
Days in month (billing period)	31
Average daily flow (gpd)	1,357,696
Average concentration BOD (mg/l)	111.3
Average concentration TSS (mg/l)	142.92
Average concentration NH3 (mg/l)	13.82

Flow calculation

Average daily flow = Total flow / Number of Days =	1,404,580
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$79,358.12

BOD calculation

Average concentration from sampling (mg/l)	111.3
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1303.79
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$17,156.66

TSS calculation

Average concentration from sampling (mg/l)	142.92
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1674.19
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$24,409.41

NH3 calculation

Average concentration from sampling (mg/l)	13.82
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	161.8902499
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$5,084.15

Total monthly charge	>>>>	\$126,008.35
4% Tax		\$5,040.33
Total Due		\$131,048.68

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - March 2011

Total monthly flow (gals) March	35,748,900
Days in month (billing period)	31
Average daily flow (gpd)	690,178
Average concentration BOD (mg/l)	303.4
Average concentration TSS (mg/l)	2789.8
Average concentration NH3 (mg/l)	44.136

Flow calculation

Average daily flow = Total flow / Number of Days =	1,153,190
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$45,608.29

BOD calculation

Average concentration from sampling (mg/l)	303.4
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	2917.98
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$26,878.54

TSS calculation

Average concentration from sampling (mg/l)	2789.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	26831.20
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$273,835.47

NH3 calculation

Average concentration from sampling (mg/l)	44.136
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	424.4827154
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$9,331.59

Total monthly charge >>>> \$355,653.89

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - February

Total monthly flow (gals)	44,588,245
Days in month (billing period)	29
Average daily flow (gpd)	1,552,031
Average concentration BOD (mg/l)	32.9
Average concentration TSS (mg/l)	64.12
Average concentration NH3 (mg/l)	20.8

Flow calculation

Average daily flow = Total flow / Number of Days =	1,537,526
Unit cost per gallon per day (2011 rates)	\$0.0480
Average daily flow x Unit cost =	\$73,839.05

BOD calculation

Average concentration from sampling (mg/l)	32.9
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	421.88
Unit cost per lbs/day (2011 rates)	\$11.19
Lbs/day x Unit cost =	\$4,718.76

TSS calculation

Average concentration from sampling (mg/l)	64.12
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	822.21
Unit cost per lbs/day (2011 rates)	\$12.39
Lbs/day x Unit cost =	\$10,189.49

NH3 calculation

Average concentration from sampling (mg/l)	20.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	266.7176564
Unit cost per lbs/day (2011 rates)	\$26.69
Lbs/day x Unit cost =	\$7,119.81

Total monthly charge	>>>>	\$95,867.12
4% Tax		\$3,834.68
Total Due		\$99,701.81

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - April 2011

Total monthly flow (gals) April	36,617,456
Days in month (billing period)	31
Average daily flow (gpd)	1,207,781
Average concentration BOD (mg/l)	166.58
Average concentration TSS (mg/l)	162.75
Average concentration NH3 (mg/l)	82.46

Flow calculation

Average daily flow = Total flow / Number of Days =	1,181,208
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$46,716.39

BOD calculation

Average concentration from sampling (mg/l)	166.58
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1641.03
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$15,116.05

TSS calculation

Average concentration from sampling (mg/l)	162.75
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1603.30
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$16,363.01

NH3 calculation

Average concentration from sampling (mg/l)	82.46
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	812.3362909
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$17,857.95

Total monthly charge >>>> \$96,053.40

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - March

Total monthly flow (gals)	51,572,452
Days in month (billing period)	31
Average daily flow (gpd)	1,520,970
Average concentration BOD (mg/l)	38.38
Average concentration TSS (mg/l)	57.98
Average concentration NH3 (mg/l)	21.45

Flow calculation

Average daily flow = Total flow / Number of Days =	1,663,627
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$79,895.04

BOD calculation

Average concentration from sampling (mg/l)	38.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	532.51
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$5,956.22

TSS calculation

Average concentration from sampling (mg/l)	57.98
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	804.45
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$9,969.44

NH3 calculation

Average concentration from sampling (mg/l)	21.45
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	297.6113115
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$7,944.49

Total monthly charge	>>>>	\$103,765.20
4% Tax		\$4,150.61
Total Due		\$107,915.81

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - March

Total monthly flow (gals)	37,943,832
Days in month (billing period)	31
Average daily flow (gpd)	1,314,768
Average concentration BOD (mg/l)	26.46
Average concentration TSS (mg/l)	46.15
Average concentration NH3 (mg/l)	1.47

Flow calculation

Average daily flow = Total flow / Number of Days =	1,223,995
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$69,155.11

BOD calculation

Average concentration from sampling (mg/l)	26.46
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	270.11
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$3,554.35

TSS calculation

Average concentration from sampling (mg/l)	46.15
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	471.10
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$6,868.61

NH3 calculation

Average concentration from sampling (mg/l)	1.47
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	15.00592876
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$471.26

Total monthly charge	>>>>	\$80,049.34
4% Tax		\$3,201.97
Total Due		\$83,251.31

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - May 2011

Total monthly flow (gals) May	22,490,250
Days in month (billing period)	31
Average daily flow (gpd)	1,088,803
Average concentration BOD (mg/l)	43.94
Average concentration TSS (mg/l)	43.75
Average concentration NH3 (mg/l)	66.92

Flow calculation

Average daily flow = Total flow / Number of Days =	725,492
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$28,692.96

BOD calculation

Average concentration from sampling (mg/l)	43.94
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	265.86
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$2,448.96

TSS calculation

Average concentration from sampling (mg/l)	43.75
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	264.71
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$2,701.63

NH3 calculation

Average concentration from sampling (mg/l)	66.92
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	404.9063355
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$8,901.24

Total monthly charge >>>> \$42,744.80

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - April

Total monthly flow (gals)	51,020,997
Days in month (billing period)	30
Average daily flow (gpd)	1,655,187
Average concentration BOD (mg/l)	59.385
Average concentration TSS (mg/l)	56.5
Average concentration NH3 (mg/l)	24.115

Flow calculation

Average daily flow = Total flow / Number of Days =	1,700,700
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$81,675.42

BOD calculation

Average concentration from sampling (mg/l)	59.385
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	842.31
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$9,421.38

TSS calculation

Average concentration from sampling (mg/l)	56.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	801.39
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$9,931.45

NH3 calculation

Average concentration from sampling (mg/l)	24.115
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	342.0432333
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$9,130.56

Total monthly charge	>>>>	\$110,158.82
4% Tax		\$4,406.35
Total Due		\$114,565.18

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results -April

Total monthly flow (gals)	39,258,728
Days in month (billing period)	30
Average daily flow (gpd)	1,249,728
Average concentration BOD (mg/l)	53.85
Average concentration TSS (mg/l)	68.25
Average concentration NH3 (mg/l)	1.54

Flow calculation

Average daily flow = Total flow / Number of Days =	1,308,624
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$73,936.65

BOD calculation

Average concentration from sampling (mg/l)	53.85
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	587.71
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$7,733.78

TSS calculation

Average concentration from sampling (mg/l)	68.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	744.88
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$10,860.14

NH3 calculation

Average concentration from sampling (mg/l)	1.54
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	16.80744663
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$527.84

Total monthly charge	>>>>	\$93,058.41
4% Tax		\$3,722.34
Total Due		\$96,780.74

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - June 2011

Total monthly flow (gals) May	25,397,000
Days in month (billing period)	30
Average daily flow (gpd)	964,360
Average concentration BOD (mg/l)	41.33
Average concentration TSS (mg/l)	30.3
Average concentration NH3 (mg/l)	39.42

Flow calculation

Average daily flow = Total flow / Number of Days =	846,567
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$33,481.43

BOD calculation

Average concentration from sampling (mg/l)	41.33
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	291.80
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$2,687.92

TSS calculation

Average concentration from sampling (mg/l)	30.3
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	213.93
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$2,183.33

NH3 calculation

Average concentration from sampling (mg/l)	39.42
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	278.3196277
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$6,118.42

Total monthly charge >>>> \$44,471.11

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - May

Total monthly flow (gals)	51,014,498
Days in month (billing period)	31
Average daily flow (gpd)	1,625,651
Average concentration BOD (mg/l)	67.03
Average concentration TSS (mg/l)	53.84
Average concentration NH3 (mg/l)	44.29

Flow calculation

Average daily flow = Total flow / Number of Days =	1,645,629
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$79,030.66

BOD calculation

Average concentration from sampling (mg/l)	67.03
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	919.96
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$10,289.90

TSS calculation

Average concentration from sampling (mg/l)	53.84
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	738.93
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$9,157.43

NH3 calculation

Average concentration from sampling (mg/l)	44.29
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	607.8601242
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$16,226.33

Total monthly charge	>>>>	\$114,704.33
4% Tax		\$4,588.17
Total Due		\$119,292.50

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - May

Total monthly flow (gals)	43,142,976
Days in month (billing period)	31
Average daily flow (gpd)	1,337,499
Average concentration BOD (mg/l)	36.79
Average concentration TSS (mg/l)	37.34
Average concentration NH3 (mg/l)	9.91

Flow calculation

Average daily flow = Total flow / Number of Days =	1,391,709
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$78,630.89

BOD calculation

Average concentration from sampling (mg/l)	36.79
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	427.02
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$5,619.13

TSS calculation

Average concentration from sampling (mg/l)	37.34
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	433.40
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$6,318.88

NH3 calculation

Average concentration from sampling (mg/l)	9.91
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	115.0239058
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$3,612.32

Total monthly charge	>>>>	\$94,181.23
4% Tax		\$3,767.25
Total Due		\$97,948.48

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - July 2011

Total monthly flow (gals) July	27,261,510
Days in month (billing period)	31
Average daily flow (gpd)	871,639
Average concentration BOD (mg/l)	43.9675
Average concentration TSS (mg/l)	38.25
Average concentration NH3 (mg/l)	35.84

Flow calculation

Average daily flow = Total flow / Number of Days =	879,404
Unit cost per gallon per day (2010 rates)	<u>\$0.0395</u>
Average daily flow x Unit cost =	\$34,780.12

BOD calculation

Average concentration from sampling (mg/l)	43.9675
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	322.47
Unit cost per lbs/day (2010 rates)	<u>\$9.21</u>
Lbs/day x Unit cost =	\$2,970.36

TSS calculation

Average concentration from sampling (mg/l)	38.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	280.53
Unit cost per lbs/day (2010 rates)	<u>\$10.21</u>
Lbs/day x Unit cost =	\$2,863.09

NH3 calculation

Average concentration from sampling (mg/l)	35.84
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	262.8586453
Unit cost per lbs/day (2010 rates)	<u>\$21.98</u>
Lbs/day x Unit cost =	\$5,778.54

Total monthly charge >>>> \$46,392.12

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2011 Rates)

Monitoring results - June

Total monthly flow (gals)	49,293,492
Days in month (billing period)	30
Average daily flow (gpd)	1,633,550
Average concentration BOD (mg/l)	54.05
Average concentration TSS (mg/l)	84.9
Average concentration NH3 (mg/l)	51.895

Flow calculation

Average daily flow = Total flow / Number of Days =	1,643,116
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$78,910.00

BOD calculation

Average concentration from sampling (mg/l)	54.05
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	740.68
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$8,284.65

TSS calculation

Average concentration from sampling (mg/l)	84.9
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1163.43
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$14,418.25

NH3 calculation

Average concentration from sampling (mg/l)	51.895
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	711.1478433
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$18,983.51

Total monthly charge	>>>>	\$120,596.41
4% Tax		\$4,823.86
Total Due		\$125,420.27

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - June

Total monthly flow (gals)	42,524,224
Days in month (billing period)	30
Average daily flow (gpd)	1,423,593
Average concentration BOD (mg/l)	47.17
Average concentration TSS (mg/l)	39.83
Average concentration NH3 (mg/l)	14.96

Flow calculation

Average daily flow = Total flow / Number of Days =	1,417,474
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$80,086.61

BOD calculation

Average concentration from sampling (mg/l)	47.17
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	557.63
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$7,337.90

TSS calculation

Average concentration from sampling (mg/l)	39.83
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	470.86
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$6,865.04

NH3 calculation

Average concentration from sampling (mg/l)	14.96
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	176.8531447
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$5,554.06

Total monthly charge	>>>>	\$99,843.63
4% Tax		\$3,993.75
Total Due		\$103,837.37

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - July 2011

Total monthly flow (gals) July	27,261,510
Days in month (billing period)	30
Average daily flow (gpd)	871,639
Average concentration BOD (mg/l)	43.9675
Average concentration TSS (mg/l)	38.25
Average concentration NH3 (mg/l)	35.84

Flow calculation

Average daily flow = Total flow / Number of Days =	908,717
Unit cost per gallon per day (2010 rates)	\$0.0395
Average daily flow x Unit cost =	\$35,939.45

BOD calculation

Average concentration from sampling (mg/l)	43.9675
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	333.22
Unit cost per lbs/day (2010 rates)	\$9.21
Lbs/day x Unit cost =	\$3,069.37

TSS calculation

Average concentration from sampling (mg/l)	38.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	289.89
Unit cost per lbs/day (2010 rates)	\$10.21
Lbs/day x Unit cost =	\$2,958.53

NH3 calculation

Average concentration from sampling (mg/l)	35.84
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	271.6206001
Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$5,971.16

Total monthly charge >>>> \$47,938.52

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - July

Total monthly flow (gals)	46,477,836
Days in month (billing period)	31
Average daily flow (gpd)	1,630,053
Average concentration BOD (mg/l)	91.5
Average concentration TSS (mg/l)	146.5
Average concentration NH3 (mg/l)	45.71

Flow calculation

Average daily flow = Total flow / Number of Days =	1,499,285
Unit cost per gallon per day (2011 rates)	<u>\$0.0480</u>
Average daily flow x Unit cost =	\$72,002.56

BOD calculation

Average concentration from sampling (mg/l)	91.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1144.12
Unit cost per lbs/day (2011 rates)	<u>\$11.19</u>
Lbs/day x Unit cost =	\$12,797.21

TSS calculation

Average concentration from sampling (mg/l)	146.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1831.84
Unit cost per lbs/day (2011 rates)	<u>\$12.39</u>
Lbs/day x Unit cost =	\$22,701.70

NH3 calculation

Average concentration from sampling (mg/l)	45.71
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	571.559539
Unit cost per lbs/day (2011 rates)	<u>\$26.69</u>
Lbs/day x Unit cost =	\$15,257.31

Total monthly charge	>>>>	\$122,758.79
4% Tax		\$4,910.35
Total Due		\$127,669.14

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - July

Total monthly flow (gals)	44,739,392
Days in month (billing period)	31
Average daily flow (gpd)	1,452,834
Average concentration BOD (mg/l)	18.72
Average concentration TSS (mg/l)	21.53
Average concentration NH3 (mg/l)	8.874

Flow calculation

Average daily flow = Total flow / Number of Days =	1,443,206
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$81,540.46

BOD calculation

Average concentration from sampling (mg/l)	18.72
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	225.32
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$2,965.00

TSS calculation

Average concentration from sampling (mg/l)	21.53
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	259.14
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$3,778.24

NH3 calculation

Average concentration from sampling (mg/l)	8.874
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	106.8104781
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$3,354.37

Total monthly charge	>>>>	\$91,638.09
4% Tax		\$3,665.52
Total Due		\$95,303.62

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - January 2010

Total monthly flow (gals) (Jan - Feb)	30,310,000
Days in month (billing period)	32
Average daily flow (gpd)	947,188
Average concentration BOD (mg/l)	68.33
Average concentration TSS (mg/l)	1008.53
Average concentration NH3 (mg/l)	7.56

Flow calculation

Average daily flow = Total flow / Number of Days =	947,188
Unit cost per gallon per day (2009 rates)	<u>\$0.0311</u>
Average daily flow x Unit cost =	\$29,433.60

BOD calculation

Average concentration from sampling (mg/l)	68.33
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	539.78
Unit cost per lbs/day (2009 rates)	<u>\$7.24</u>
Lbs/day x Unit cost =	\$3,906.62

TSS calculation

Average concentration from sampling (mg/l)	1008.53
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	7966.93
Unit cost per lbs/day (2009 rates)	<u>\$8.02</u>
Lbs/day x Unit cost =	\$63,885.91

NH3 calculation

Average concentration from sampling (mg/l)	7.56
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	59.72055075
Unit cost per lbs/day (2009 rates)	<u>\$17.27</u>
Lbs/day x Unit cost =	\$1,031.54

Total monthly charge >>>> \$98,257.67

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - February 2010

Total monthly flow (gals) (Feb - Mar)	26,881,000
Days in month (billing period)	27
Average daily flow (gpd)	995,593
Average concentration BOD (mg/l)	96.38
Average concentration TSS (mg/l)	598.88
Average concentration NH3 (mg/l)	11.66

Flow calculation

Average daily flow = Total flow / Number of Days =	995,593
Unit cost per gallon per day (2009 rates)	\$0.0311
Average daily flow x Unit cost =	\$30,937.78

BOD calculation

Average concentration from sampling (mg/l)	96.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	800.27
Unit cost per lbs/day (2009 rates)	\$7.24
Lbs/day x Unit cost =	\$5,791.92

TSS calculation

Average concentration from sampling (mg/l)	598.88
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	4972.65
Unit cost per lbs/day (2009 rates)	\$8.02
Lbs/day x Unit cost =	\$39,875.10

NH3 calculation

Average concentration from sampling (mg/l)	11.66
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	96.81580431
Unit cost per lbs/day (2009 rates)	\$17.27
Lbs/day x Unit cost =	\$1,672.27

Total monthly charge >>>> \$78,277.06

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - February 2010

Total monthly flow (gals) (Mar - Apr)	26,280,000
Days in month (billing period)	31
Average daily flow (gpd)	847,742
Average concentration BOD (mg/l)	30.65
Average concentration TSS (mg/l)	32.2
Average concentration NH3 (mg/l)	20.83

Flow calculation

Average daily flow = Total flow / Number of Days =	847,742
Unit cost per gallon per day (2009 rates)	\$0.0311
Average daily flow x Unit cost =	\$26,343.36

BOD calculation

Average concentration from sampling (mg/l)	30.65
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	216.70
Unit cost per lbs/day (2009 rates)	\$7.24
Lbs/day x Unit cost =	\$1,568.37

TSS calculation

Average concentration from sampling (mg/l)	32.2
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	227.66
Unit cost per lbs/day (2009 rates)	\$8.02
Lbs/day x Unit cost =	\$1,825.58

NH3 calculation

Average concentration from sampling (mg/l)	20.83
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	147.2715941
Unit cost per lbs/day (2009 rates)	\$17.27
Lbs/day x Unit cost =	\$2,543.78

Total monthly charge >>>> \$32,281.08

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - April 2010

Total monthly flow (gals) (Apr - May)	28,735,000
Days in month (billing period)	30
Average daily flow (gpd)	957,833
Average concentration BOD (mg/l)	50.25
Average concentration TSS (mg/l)	39.6
Average concentration NH3 (mg/l)	21.28

Flow calculation

Average daily flow = Total flow / Number of Days =	957,833
Unit cost per gallon per day (2009 rates)	<u>\$0.0311</u>
Average daily flow x Unit cost =	\$29,764.42

BOD calculation

Average concentration from sampling (mg/l)	50.25
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	401.41
Unit cost per lbs/day (2009 rates)	<u>\$7.24</u>
Lbs/day x Unit cost =	\$2,905.22

TSS calculation

Average concentration from sampling (mg/l)	39.6
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	316.34
Unit cost per lbs/day (2009 rates)	<u>\$8.02</u>
Lbs/day x Unit cost =	\$2,536.68

NH3 calculation

Average concentration from sampling (mg/l)	21.28
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	169.9916624
Unit cost per lbs/day (2009 rates)	<u>\$17.27</u>
Lbs/day x Unit cost =	\$2,936.22

Total monthly charge >>>> \$38,142.54

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results -May 2010

Total monthly flow (gals) (May - June)	28,689,000
Days in month (billing period)	31
Average daily flow (gpd)	925,452
Average concentration BOD (mg/l)	77.38
Average concentration TSS (mg/l)	32.38
Average concentration NH3 (mg/l)	17.08

Flow calculation

Average daily flow = Total flow / Number of Days =	925,452
Unit cost per gallon per day (2009 rates)	\$0.0311
Average daily flow x Unit cost =	\$28,758.17

BOD calculation

Average concentration from sampling (mg/l)	77.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	597.24
Unit cost per lbs/day (2009 rates)	\$7.24
Lbs/day x Unit cost =	\$4,322.51

TSS calculation

Average concentration from sampling (mg/l)	32.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	249.92
Unit cost per lbs/day (2009 rates)	\$8.02
Lbs/day x Unit cost =	\$2,004.06

NH3 calculation

Average concentration from sampling (mg/l)	17.08
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	131.827991
Unit cost per lbs/day (2009 rates)	\$17.27
Lbs/day x Unit cost =	\$2,277.03

Total monthly charge >>>> \$37,361.76

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - June 2010

Total monthly flow (gals) (June-July)	27,595,000
Days in month (billing period)	30
Average daily flow (gpd)	885,143
Average concentration BOD (mg/l)	144.3
Average concentration TSS (mg/l)	587.5
Average concentration NH3 (mg/l)	57.46

Flow calculation

Average daily flow = Total flow / Number of Days =	919,833
Unit cost per gallon per day (2009 rates)	\$0.0311
Average daily flow x Unit cost =	\$28,583.58

BOD calculation

Average concentration from sampling (mg/l)	144.3
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1106.98
Unit cost per lbs/day (2009 rates)	\$7.24
Lbs/day x Unit cost =	\$8,011.78

TSS calculation

Average concentration from sampling (mg/l)	587.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	4506.95
Unit cost per lbs/day (2009 rates)	\$8.02
Lbs/day x Unit cost =	\$36,140.76

NH3 calculation

Average concentration from sampling (mg/l)	57.46
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	440.7992186
Unit cost per lbs/day (2009 rates)	\$17.27
Lbs/day x Unit cost =	\$7,613.79

Total monthly charge >>>> \$80,349.92

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - July 2010

Total monthly flow (gals) (July-August)	28,746,000
Days in month (billing period)	31
Average daily flow (gpd)	917,828
Average concentration BOD (mg/l)	283.2
Average concentration TSS (mg/l)	1130.1
Average concentration NH3 (mg/l)	44.35

Flow calculation

Average daily flow = Total flow / Number of Days =	927,290
Unit cost per gallon per day (2009 rates)	\$0.0311
Average daily flow x Unit cost =	\$28,815.30

BOD calculation

Average concentration from sampling (mg/l)	283.2
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	2190.16
Unit cost per lbs/day (2009 rates)	\$7.24
Lbs/day x Unit cost =	\$15,851.22

TSS calculation

Average concentration from sampling (mg/l)	1130.1
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	8739.74
Unit cost per lbs/day (2009 rates)	\$8.02
Lbs/day x Unit cost =	\$70,083.03

NH3 calculation

Average concentration from sampling (mg/l)	44.35
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	342.9852172
Unit cost per lbs/day (2009 rates)	\$17.27
Lbs/day x Unit cost =	\$5,924.28

Total monthly charge >>>> \$120,673.84

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
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Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2009 Rates)

Monitoring results - July 2010

Total monthly flow (gals) (July-August)	28,746,000
Days in month (billing period)	31
Average daily flow (gpd)	869,321
Average concentration BOD (mg/l)	69
Average concentration TSS (mg/l)	147.38
Average concentration NH3 (mg/l)	18.62

Flow calculation

Average daily flow = Total flow / Number of Days =	927,290
Unit cost per gallon per day (2009 rates)	\$0.0395
Average daily flow x Unit cost =	\$36,674.02

BOD calculation

Average concentration from sampling (mg/l)	69
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	533.62
Unit cost per lbs/day (2009 rates)	\$9.21
Lbs/day x Unit cost =	\$4,915.34

TSS calculation

Average concentration from sampling (mg/l)	147.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1139.78
Unit cost per lbs/day (2009 rates)	\$10.21
Lbs/day x Unit cost =	\$11,632.42

NH3 calculation

Average concentration from sampling (mg/l)	18.62
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	143.999656
Unit cost per lbs/day (2009 rates)	\$21.98
Lbs/day x Unit cost =	\$3,165.61

Total monthly charge >>>> \$56,387.39

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - September 2010

Total monthly flow (gals) (September-October)	26,680,000
Days in month (billing period)	30
Average daily flow (gpd)	868,799
Average concentration BOD (mg/l)	86.1
Average concentration TSS (mg/l)	111.5
Average concentration NH3 (mg/l)	16.576

Flow calculation

Average daily flow = Total flow / Number of Days =	889,333
Unit cost per gallon per day (2009 rates)	\$0.0395
Average daily flow x Unit cost =	\$35,172.84

BOD calculation

Average concentration from sampling (mg/l)	86.1
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	638.61
Unit cost per lbs/day (2009 rates)	\$9.21
Lbs/day x Unit cost =	\$5,882.43

TSS calculation

Average concentration from sampling (mg/l)	111.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	827.00
Unit cost per lbs/day (2009 rates)	\$10.21
Lbs/day x Unit cost =	\$8,440.25

NH3 calculation

Average concentration from sampling (mg/l)	16.576
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	122.944855
Unit cost per lbs/day (2009 rates)	\$21.98
Lbs/day x Unit cost =	\$2,702.75

Total monthly charge >>>> \$52,198.26

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
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Average concentration NH3 (mg/l)	16.576

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Average daily flow x Unit cost =	\$35,172.84

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Unit cost per lbs/day (2010 rates)	\$21.98
Lbs/day x Unit cost =	\$2,702.75

Total monthly charge >>>> \$52,198.26

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
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Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - August 2011

Total monthly flow (gals) August	29,259,970
Days in month (billing period)	31
Average daily flow (gpd)	922,296
Average concentration BOD (mg/l)	34.69
Average concentration TSS (mg/l)	39.75
Average concentration NH3 (mg/l)	30.38

Flow calculation

Average daily flow = Total flow / Number of Days =	943,870
Unit cost per gallon per day (2010 rates)	\$0.0480
Average daily flow x Unit cost =	\$45,328.97

BOD calculation

Average concentration from sampling (mg/l)	34.69
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	273.08
Unit cost per lbs/day (2010 rates)	\$11.19
Lbs/day x Unit cost =	\$3,054.40

TSS calculation

Average concentration from sampling (mg/l)	39.75
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	312.91
Unit cost per lbs/day (2010 rates)	\$12.39
Lbs/day x Unit cost =	\$3,877.80

NH3 calculation

Average concentration from sampling (mg/l)	30.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	239.1475868
Unit cost per lbs/day (2010 rates)	\$26.69
Lbs/day x Unit cost =	\$6,383.85

Total monthly charge >>>> \$58,645.04

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

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Average daily flow (gpd)	922,296
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Average concentration TSS (mg/l)	39.75
Average concentration NH3 (mg/l)	30.38

Flow calculation

Average daily flow = Total flow / Number of Days =	943,870
Unit cost per gallon per day (2010 rates)	\$0.0480
Average daily flow x Unit cost =	\$45,328.97

BOD calculation

Average concentration from sampling (mg/l)	34.69
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	273.08
Unit cost per lbs/day (2010 rates)	\$11.19
Lbs/day x Unit cost =	\$3,054.40

TSS calculation

Average concentration from sampling (mg/l)	39.75
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Unit cost per lbs/day (2010 rates)	\$12.39
Lbs/day x Unit cost =	\$3,877.80

NH3 calculation

Average concentration from sampling (mg/l)	30.38
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	239.1475868
Unit cost per lbs/day (2010 rates)	\$26.69
Lbs/day x Unit cost =	\$6,383.85

Total monthly charge >>>> \$58,645.04

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - August

Total monthly flow (gals)	40,186,624
Days in month (billing period)	31
Average daily flow (gpd)	1,492,273
Average concentration BOD (mg/l)	62.72
Average concentration TSS (mg/l)	82.33
Average concentration NH3 (mg/l)	48.32

Flow calculation

Average daily flow = Total flow / Number of Days =	1,296,343
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$73,242.75

BOD calculation

Average concentration from sampling (mg/l)	62.72
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	678.10
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$8,923.12

TSS calculation

Average concentration from sampling (mg/l)	82.33
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	890.11
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$12,977.63

NH3 calculation

Average concentration from sampling (mg/l)	48.32
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	522.411593
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$16,406.29

Total monthly charge	>>>>	\$111,549.81
4% Tax		\$4,461.99
Total Due		\$116,011.80

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

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Table 2. Bill Calculation (2012 Rates)

Monitoring results - August

Total monthly flow (gals)	40,186,624
Days in month (billing period)	31
Average daily flow (gpd)	1,492,273
Average concentration BOD (mg/l)	62.72
Average concentration TSS (mg/l)	82.33
Average concentration NH3 (mg/l)	48.32

Flow calculation

Average daily flow = Total flow / Number of Days =	1,296,343
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$73,242.75

BOD calculation

Average concentration from sampling (mg/l)	62.72
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	678.10
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$8,923.12

TSS calculation

Average concentration from sampling (mg/l)	82.33
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	890.11
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$12,977.63

NH3 calculation

Average concentration from sampling (mg/l)	48.32
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	522.411593
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$16,406.29

Total monthly charge	>>>>	\$111,549.81
4% Tax		\$4,461.99
Total Due		\$116,011.80

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40
Oct. 1, 2013	100%	\$0.0616	\$14.34	\$15.89	\$34.23

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - August

Total monthly flow (gals)	49,765,440
Days in month (billing period)	31
Average daily flow (gpd)	1,524,265
Average concentration BOD (mg/l)	14.03
Average concentration TSS (mg/l)	23.63
Average concentration NH3 (mg/l)	7.53

Flow calculation

Average daily flow = Total flow / Number of Days =	1,605,337
Unit cost per gallon per day (2011 rates)	<u>\$0.0616</u>
Average daily flow x Unit cost =	\$98,863.83

BOD calculation

Average concentration from sampling (mg/l)	14.03
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	187.84
Unit cost per lbs/day (2011 rates)	<u>\$14.34</u>
Lbs/day x Unit cost =	\$2,694.27

TSS calculation

Average concentration from sampling (mg/l)	23.63
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	316.37
Unit cost per lbs/day (2011 rates)	<u>\$15.89</u>
Lbs/day x Unit cost =	\$5,027.75

NH3 calculation

Average concentration from sampling (mg/l)	7.53
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	100.8154705
Unit cost per lbs/day (2011 rates)	<u>\$34.23</u>
Lbs/day x Unit cost =	\$3,451.05

Total monthly charge	>>>>	\$110,036.92
4% Tax		\$4,401.48
Total Due		\$114,438.39

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - September 2011

Total monthly flow (gals) September	46,797,334
Days in month (billing period)	30
Average daily flow (gpd)	1,013,797
Average concentration BOD (mg/l)	51.02
Average concentration TSS (mg/l)	73.8
Average concentration NH3 (mg/l)	29.548

Flow calculation

Average daily flow = Total flow / Number of Days =	1,559,911
Unit cost per gallon per day (2010 rates)	\$0.0480
Average daily flow x Unit cost =	\$74,914.10

BOD calculation

Average concentration from sampling (mg/l)	51.02
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	663.75
Unit cost per lbs/day (2010 rates)	\$11.19
Lbs/day x Unit cost =	\$7,424.21

TSS calculation

Average concentration from sampling (mg/l)	73.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	960.11
Unit cost per lbs/day (2010 rates)	\$12.39
Lbs/day x Unit cost =	\$11,898.51

NH3 calculation

Average concentration from sampling (mg/l)	29.548
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	384.4093998
Unit cost per lbs/day (2010 rates)	\$26.69
Lbs/day x Unit cost =	\$10,261.49

Total monthly charge >>>> \$104,498.33

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - Sept.

Total monthly flow (gals)	48,209,312
Days in month (billing period)	30
Average daily flow (gpd)	1,539,584
Average concentration BOD (mg/l)	45.26
Average concentration TSS (mg/l)	49.5
Average concentration NH3 (mg/l)	43.89

Flow calculation

Average daily flow = Total flow / Number of Days =	1,606,977
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$90,793.44

BOD calculation

Average concentration from sampling (mg/l)	45.26
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	606.58
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$7,982.06

TSS calculation

Average concentration from sampling (mg/l)	49.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	663.41
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$9,672.36

NH3 calculation

Average concentration from sampling (mg/l)	43.89
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	588.2220636
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$18,473.07

Total monthly charge	>>>>	\$126,920.94
4% Tax		\$5,076.84
Total Due		\$131,997.78

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40
Oct. 1, 2013	100%	\$0.0616	\$14.34	\$15.89	\$34.23

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - September

Total monthly flow (gals)	40,186,368
Days in month (billing period)	30
Average daily flow (gpd)	1,488,240
Average concentration BOD (mg/l)	10.8
Average concentration TSS (mg/l)	16.72
Average concentration NH3 (mg/l)	3.55

Flow calculation

Average daily flow = Total flow / Number of Days =	1,339,546
Unit cost per gallon per day (2011 rates)	<u>\$0.0616</u>
Average daily flow x Unit cost =	\$82,495.22

BOD calculation

Average concentration from sampling (mg/l)	10.8
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	120.66
Unit cost per lbs/day (2011 rates)	<u>\$14.34</u>
Lbs/day x Unit cost =	\$1,730.61

TSS calculation

Average concentration from sampling (mg/l)	16.72
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	186.79
Unit cost per lbs/day (2011 rates)	<u>\$15.89</u>
Lbs/day x Unit cost =	\$2,968.51

NH3 calculation

Average concentration from sampling (mg/l)	3.55
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	39.65992658
Unit cost per lbs/day (2011 rates)	<u>\$34.23</u>
Lbs/day x Unit cost =	\$1,357.61

Total monthly charge	>>>>	\$88,551.96
4% Tax		\$3,542.08
Total Due		\$92,094.04

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2010 Rates)

Monitoring results - October 2011

Total monthly flow (gals) October	51,245,547
Days in month (billing period)	31
Average daily flow (gpd)	1,165,055
Average concentration BOD (mg/l)	39
Average concentration TSS (mg/l)	48.5
Average concentration NH3 (mg/l)	2.31

Flow calculation

Average daily flow = Total flow / Number of Days =	1,653,082
Unit cost per gallon per day (2011 rates)	\$0.0480
Average daily flow x Unit cost =	\$79,388.60

BOD calculation

Average concentration from sampling (mg/l)	39
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	537.68
Unit cost per lbs/day (2011 rates)	\$11.19
Lbs/day x Unit cost =	\$6,014.08

TSS calculation

Average concentration from sampling (mg/l)	48.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	668.66
Unit cost per lbs/day (2011 rates)	\$12.39
Lbs/day x Unit cost =	\$8,286.53

NH3 calculation

Average concentration from sampling (mg/l)	2.31
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	31.84728907
Unit cost per lbs/day (2011 rates)	\$26.69
Lbs/day x Unit cost =	\$850.14

Total monthly charge >>>> \$94,539.36

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>	FLOW	BOD	TSS	NH ₃	
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - Oct.

Total monthly flow (gals)	45,396,943
Days in month (billing period)	31
Average daily flow (gpd)	1,539,432
Average concentration BOD (mg/l)	90.28
Average concentration TSS (mg/l)	370.4
Average concentration NH3 (mg/l)	13.5

Flow calculation

Average daily flow = Total flow / Number of Days =	1,464,418
Unit cost per gallon per day (2011 rates)	<u>\$0.0565</u>
Average daily flow x Unit cost =	\$82,738.89

BOD calculation

Average concentration from sampling (mg/l)	90.28
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	1102.61
Unit cost per lbs/day (2011 rates)	<u>\$13.16</u>
Lbs/day x Unit cost =	\$14,509.33

TSS calculation

Average concentration from sampling (mg/l)	370.4
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	4523.78
Unit cost per lbs/day (2011 rates)	<u>\$14.58</u>
Lbs/day x Unit cost =	\$65,955.88

NH3 calculation

Average concentration from sampling (mg/l)	13.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	164.8787681
Unit cost per lbs/day (2011 rates)	<u>\$31.40</u>
Lbs/day x Unit cost =	\$5,178.00

Total monthly charge	>>>>	\$168,382.12
4% Tax		\$6,735.28
Total Due		\$175,117.40

NATIONAL BEEF SEWER RATES AND CALCS

Table 1. Unit Charges for Monitored Flow

Treatment parameter >>>>		FLOW	BOD	TSS	NH ₃
Date	Discount factor (1)	\$ per gpd	per lb/day	per lb/day	\$ per lb/day
Oct. 1, 2008	40%	\$0.0226	\$5.26	\$5.83	\$12.56
Oct. 1, 2009	55%	\$0.0311	\$7.24	\$8.02	\$17.27
Oct. 1, 2010	70%	\$0.0395	\$9.21	\$10.21	\$21.98
Oct. 1, 2011	85%	\$0.0480	\$11.19	\$12.39	\$26.69
Oct. 1, 2012	100%	\$0.0565	\$13.16	\$14.58	\$31.40
Oct. 1, 2013	100%	\$0.0616	\$14.34	\$15.89	\$34.23

(1) City of Brawley is phasing in the rate changes between now and 2012/13

Table 2. Bill Calculation (2012 Rates)

Monitoring results - October

Total monthly flow (gals)	41,189,312
Days in month (billing period)	31
Average daily flow (gpd)	1,341,348
Average concentration BOD (mg/l)	19.5
Average concentration TSS (mg/l)	26.18
Average concentration NH3 (mg/l)	0.74

Flow calculation

Average daily flow = Total flow / Number of Days =	1,328,687
Unit cost per gallon per day (2011 rates)	<u>\$0.0616</u>
Average daily flow x Unit cost =	\$81,826.53

BOD calculation

Average concentration from sampling (mg/l)	19.5
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	216.08
Unit cost per lbs/day (2011 rates)	<u>\$14.34</u>
Lbs/day x Unit cost =	\$3,099.38

TSS calculation

Average concentration from sampling (mg/l)	26.18
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	290.11
Unit cost per lbs/day (2011 rates)	<u>\$15.89</u>
Lbs/day x Unit cost =	\$4,610.38

NH3 calculation

Average concentration from sampling (mg/l)	0.74
Average lbs/day = Average concentration x Flow (gpd) x 8.34 / 1,000,000 =	8.200127675
Unit cost per lbs/day (2011 rates)	<u>\$34.23</u>
Lbs/day x Unit cost =	\$280.70

Total monthly charge	>>>>	\$89,817.00
4% Tax		\$3,592.68
Total Due		\$93,409.68

Angel, Jose@Waterboards

From: Angel, Jose@Waterboards
Sent: Monday, April 07, 2014 2:22 PM
To: Rosanna B. Moore
Subject: Re: Beef Plant sewer charges

I'm very appreciative and thankful for your accommodation and prompt response. Keep the tab running.

Sent from my iPhone

On Apr 7, 2014, at 2:13 PM, "Rosanna B. Moore" <RBMoore@brawley-ca.gov> wrote:

Please see attached and let me know if you have questions.

Rosanna

From: Ruby Walla
Sent: Monday, April 07, 2014 10:04 AM
To: Rosanna B. Moore
Cc: Yazmin Arellano
Subject: Fwd: Beef Plant sewer charges

Ruby D. Walla
Finance Director

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<Nat'l Beef Rates and Calcs - 1003 monitoring results(1).xls>

Angel, Jose@Waterboards

From: Angel, Jose@Waterboards
Sent: Tuesday, April 08, 2014 9:22 AM
To: Rosanna B. Moore
Subject: Data Needs and Verification

Importance: High

Good morning Rosanna. I'm in need of your help again. Attached is a spreadsheet we prepared using city data. The spreadsheet covers from October 2001 through December 2013:

1. It's has a handful of flow values highlighted in yellow that I'm hopeful you or your staff can verify (unfortunately I could not do it from the flow data you sent me because I could not find a spreadsheet for all of the months);
2. Also, there are a good number of cells (Oct 2001 through Oct 2003), that there is no flow data. I understand that there may not be available data for many of those months. Can you please: (a) verify and identify for us the months for which there are no flow data; and (b) send me copy of the flow data for the months that the city has flow data (just for Oct 2001 through Oct 2003)? and
3. If you have ammonia data for Oct to Dec 2001 and Sep 2002, can you please send them to me?

Again, we can also use your help in expediting this request. I need to finalize documents related to this request today. Thanks for all your help regarding this matter.

Angel, Jose@Waterboards

From: Rosanna B. Moore <RBMoore@brawley-ca.gov>
Sent: Tuesday, April 08, 2014 9:42 AM
To: Angel, Jose@Waterboards
Subject: Re: Data Needs and Verification

Let me see what I can do. Im at at a board of sups meeting for next 30 mins or so. Finance staff are finalizing content for tonight's general fund workshop. We'll try to juggle.

On Apr 8, 2014, at 9:21 AM, "Angel, Jose@Waterboards" <Jose.Angel@waterboards.ca.gov> wrote:

Good morning Rosanna. I'm in need of your help again. Attached is a spreadsheet we prepared using city data. The spreadsheet covers from October 2001 through December 2013:

1. It's has a handful of flow values highlighted in yellow that I'm hopeful you or your staff can verify (unfortunately I could not do it from the flow data you sent me because I could not find a spreadsheet for all of the months);

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Angel, Jose@Waterboards

From: Rosanna B. Moore <RBMoore@brawley-ca.gov>
Sent: Tuesday, April 08, 2014 9:50 AM
To: Angel, Jose@Waterboards
Subject: Re: Data Needs and Verification

Attachments are missing

On Apr 8, 2014, at 9:21 AM, "Angel, Jose@Waterboards" <Jose.Angel@waterboards.ca.gov> wrote:

Good morning Rosanna. I'm in need of your help again. Attached is a spreadsheet we prepared using city data. The spreadsheet covers from October 2001 through December 2013:

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RE: Data Needs and Verification

Angel, Jose@Waterboards

Sent: Tuesday, April 08, 2014 9:53 AM
To: Rosanna B. Moore [RBMoore@brawley-ca.gov]
Importance: High
Attachments: RMB_NBC_Ammonia_Discharged.pdf (41 KB)

Your are right. I'm sorry. Here it is. Thanks for catching that.

From: Rosanna B. Moore [RBMoore@brawley-ca.gov]
Sent: Tuesday, April 08, 2014 9:49 AM
To: Angel, Jose@Waterboards
Subject: Re: Data Needs and Verification

Attachments are missing

On Apr 8, 2014, at 9:21 AM, "Angel, Jose@Waterboards" <Jose.Angel@waterboards.ca.gov> wrote:

Good morning Rosanna. I'm in need of your help again. Attached is a spreadsheet we prepared using city data. The spreadsheet covers from October 2001 through December 2013:

1. It's has a handful of flow values highlighted in yellow that I'm hopeful you or your staff can verify (unfortunately I could not do it from the flow data you sent me because I could not find a spreadsheet for all of the months);
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Again, we can also use your help in expediting this request. I need to finalize documents related to this request today. Thanks for all your help regarding this matter.

NBC Avg. Monthly Ammonia Load into City WWTP				
Year	Month	Avg. Flow (gpd)	Avg. Ammonia (mg/L)	Avg. Load (lbs/day)
2001	Oct			
	Nov			
	Dec			
2002	Jan		68	
	Feb		74.5	
	Mar		104	
	Apr		148	
	May		99.3	
	Jun		61.1	
	Jul		121	
	Aug		74.1	
	Sep			
	Oct		100	
	Nov		90	
	Dec		90	
2003	Jan		100	
	Feb		90	
	Mar		100	
	Apr		53.8	
	May		30	
	Jun		48.3	
	Jul		65.4	
	Aug		43.4	
	Sep		61.04	
	Oct		32.48	
	Nov	437,800	39.76	145
	Dec	414,677	44.8	155
2004	Jan	368,612	47.60	146
	Feb	450,321	40.18	151
	Mar	424,580	35.14	124
	Apr	413,233	26.18	90
	May	480,419	20.02	80
	Jun	464,300	17.92	69
	Jul	492,419	17.64	72
	Aug	433,774	16.24	59
	Sep	537,033	48.27	216
	Oct	522,193	28.98	126
	Nov	526,100	50.73	223
	Dec	436,677	75.36	274
	Jan	407,258	92.96	316
	Feb	497,892	88.68	368
	Mar	430,967	52.64	189
	Apr	364,766	44.52	135
	May	451,838	28.00	106

NBC Avg. Monthly Ammonia Load into City WWTP				
Year	Month	Avg. Flow (gpd)	Avg. Ammonia (mg/L)	Avg. Load (lbs/day)
2005	Jun	480,066	49.70	199
	Jul	490,967	16.66	68
	Aug	489,645	16.80	69
	Sep	454,900	13.72	52
	Oct	431,580	10.64	38
	Nov	359,000	25.48	76
	Dec	459,709	57.96	222
2006	Jan	521,225	35.28	153
	Feb	539,107	48.16	217
	March	529,290	40.74	180
	April	575,033	35.00	168
	May	497,032	31.54	131
	June	591,833	36.51	180
	July	609,903	51.66	263
	Aug	624,129	34.95	182
	Sept	732,466	47.88	292
	Oct	554,645	27.58	128
	Nov	600,866	48.60	244
	Dec	522,741	88.90	388
2007	Jan	691,032	106.73	615
	Feb	724,464	77.28	467
	March	675,967	23.17	131
	April	644,000	44.38	238
	May	688,709	44.01	253
	June	643,709	49.28	265
	July	664,193	53.53	297
	Aug	665,967	55.32	307
	Sept	666,666	41.25	229
	Oct	546,774	26.43	121
	Nov	664,166	15.49	86
	Dec	692,741	17.36	100
2008	Jan	659677	16.15	89
	Feb	761964	15.40	98
	March	783065	11.61	76
	April	594833	34.92	173
	May	775484	46.9	303
	June	704333	14.14	83
	July	668548	23.00	128
	Aug	571613	17.5	83
	Sept	740000	14.9	92
	Oct	599194	7.84	39
	Nov	653000	10.5	57
	Dec	668194	10.3	57

NBC Avg. Monthly Ammonia Load into City WWTP				
Year	Month	Avg. Flow (gpd)	Avg. Ammonia (mg/L)	Avg. Load (lbs/day)
2009	Jan	635645	9.38	50
	Feb	737500	8.12	50
	March	659677	10.5	58
	April	647000	9.18	50
	May	707419	9.80	58
	June	752500	7.27	46
	July	685968	13.33	76
	Aug	663387	11.20	62
	Sept	669900	11.34	63
	Oct	810065	6.21	42
	Nov	819367	7.28	50
	Dec	836677	10.76	75
2010	Jan	818,290	7.56	52
	Feb	995,593	11.66	97
	March	847,742	20.83	147
	April	957,833	21.28	170
	May	925,452	17.08	132
	June	885,143	57.46	424
	July	917,828	44.35	340
	Aug	869,321	18.62	135
	Sept	868,799	16.58	120
	Oct	893857	22.12	165
	Nov	876285	9.94	73
	Dec	866742	34.02	246
2011	Jan	858000	32.76	234
	Feb	893607	41.31	308
	March	690178	44.14	254
	April	1207781	82.46	831
	May	1088803	66.92	608
	June	964360	39.42	317
	July	871639	35.84	261
	Aug	922296	30.38	234
	Sept	1013797	29.55	250
	Oct	1,165,055	2.31	22
	Nov	1708086	18.10	258
	Dec	1,710,680	31.526	
2012	Jan	1676791	27.42	383
	Feb	1552031	20.80	269
	March	1520970	21.45	272
	April	1655187	24.12	333
	May	1625651	44.29	600
	June	1633550	51.90	707
	July	1630053	45.71	621
	Aug	1492273	48.32	601

NBC Avg. Monthly Ammonia Load into City WWTP				
Year	Month	Avg. Flow (gpd)	Avg. Ammonia (mg/L)	Avg. Load (lbs/day)
	Sept	1539584	43.89	564
	Oct	1539432	13.50	173
	Nov	1490945	16.94	211
	Dec	1490945	7.42	92
2013	Jan	1357696	13.82	156
	Feb	1313943	1.48	16
	March	1314768	1.47	16
	April	1249728	1.54	16
	May	1337499	9.91	111
	June	1423593	14.96	178
	July	1452835	8.87	108
	Aug	1524265	7.53	96
	Sept	1,488,240	3.55	44
	Oct	1,341,348	0.74	
	Nov		2.05	
	Dec		1.47	

- Notes:
1. Flow data based on City Finance Dept. Billing, unless otherwise noted
 2. Cells highlighted in red are data that we don't have, but we need to complete calculations in this Table
 3. Cells highlighted in yellow contained data that needs to be verified
 4. The missing data for 2013 is desirable, but not essential