California Regional Water Quality Control Board, Colorado River Basin
Prosecution Team Evidence
on the matter of
Administrative Civil Liability Complaint R7-2014-0041
Exhibit 45

TO: Tom Vandenberg, OCC
Staff Counsel

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FROM: Jose L. Angel, P.E.
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DATE: March 26, 2014

SUBJECT: **PASS THROUGH AND INTERFERENCE AT CITY OF BRAWLEY WASTEWATER TREATMENT PLANT (WWTP)**

To determine whether the Colorado River Basin Water Board should take enforcement action against National Beef California, Inc. (NBC), for its industrial discharge into the City of Brawley Wastewater Treatment Plant (WWTP), I reviewed influent and effluent ammonia and toxicity data for the City of Brawley WWTP, a Publicly Owned Treatment Works (POTW), for the period covering from May 2001 to December 2012 (the "reviewing period"). I also reviewed WWTP BOD, TSS, and bacterial data and the various Board Waste Discharge Requirements that have been in effect for the reviewing period. Further, I reviewed ammonia, TSS, and BOD data for National Beef California's slaughterhouse. The purpose of my review was: (1) to determine whether the slaughterhouse is a significant source of ammonia into the City WWTP; (2) to determine whether the discharge from the slaughterhouse into the City POTW has caused "Pass Through" and/or "Interference;" and (3) if it has, to determine its magnitude, frequency, and severity. I selected the start of the reviewing period because it would cover 6 months prior to the date when the slaughterhouse went into operation (November 2001) so I could evaluate what influent and effluent conditions were at the City WWTP. I chose the end of the reviewing period so it would cover through at least 6 months after the date when the City of Brawley commissioned its new WWTP.[1] I focused my review on ammonia and toxicity because the City has been in chronic violation of its NPDES permit for ammonia and toxicity. The City has also violated its BOD, TSS, and bacteria limits, but not as severely or frequently as ammonia and toxicity. This memorandum provides you with my findings, conclusions, and recommendations.

[1] In June-July 2011, when the City started to put some of its new unit processes into operations, there was a significant and readily observable improvement in the City WWTP effluent ammonia concentrations due to the increased treatment capacity and ability of the new systems to deal with ammonia. However, the new WWTP was "officially commissioned" by the City in March 2012. Since then, the City has been substantially in compliance.

Background

The City of Brawley owns and operates a Publicly Owned Treatment Works (POTW), as defined in Title 40 of the Code of Federal Regulations (40 CFR) section 403.3, and discharges its effluent into the New River, which is tributary to the Salton Sea. The New River and the Salton Sea are waters of the United States. The POTW consists of a wastewater treatment plant (WWTP) and associated sewage collection system and infrastructure, which provide sewage collection and treatment services to City residents, and commercial and industrial businesses. The City WWTP consists of three Biolac® activated sludge treatment units equipped with diffusers, three secondary clarifiers, an activated sludge pumping station, a UV disinfection structure, a sludge thickening unit, a sludge holding tank, a centrifuge sludge dewatering unit, and a solar greenhouse sludge drying structure. The WWTP has a permitted design treatment capacity of 5.9 mgd and was officially commissioned for full operation by the City in March 2012.[2] The discharge from the WWTP is governed by Waste Discharge Requirements (WDRs) Order R7-2010-0022, National Pollutant Discharge Elimination System (NPDES) Permit No. CA0104523, and Cease and Desist Order R7-2008-0008, as amended by Special Board Orders R7-2008-0069 and R7-2010-0003. For reference purposes, Attachment A contains a summary of the key NPDES WWTP effluent and toxicity limitations that have been in effect since 2001 to date.

National Beef California, Inc. (NBC) owns and operates the slaughterhouse. NBC bought the slaughterhouse in June 2006 from Brawley Beef, LLC, and has been operating it ever since. On January 31, 2014, however, NBC announced that it would cease operations and close the slaughterhouse on April 4, 2014. It later extended that closure date to May 23, 2014, in response to local cattlemen's and other stakeholder's request to give them time to reduce their inventories. It also owns and operates an on-site Wastewater Treatment Facility (WWTF) for the wastewater generated by the slaughterhouse. Wastewater from the slaughterhouse is discharged (1) to areal groundwater through unlined ponds and (2) to the City of Brawley Wastewater Treatment Plant (WWTP). NBC estimates that the rate of discharge to groundwater is approximately 12,800 gallons per day. Up to 1.625 million gallons per day (mgd) from the NBC WWTF are discharged into the Brawley municipal wastewater collection system for further treatment and disposal at the Brawley WWTP. The NBC WWTF consists of two dissolved air flotation (DAF) units, an anaerobic digester (pond 1), an aerobic activated sludge pond (pond 2), a clarifier, a polishing pond (pond 3), a suspended air flotation (SAF) unit, and a belt press. All three on-site ponds are unlined. There is also an unlined storm water pond on-site that is not considered part of the WWTF.

"Pass Through" is defined as "…a discharge that exits a POTW into United States waters in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation)." [40 CFR 403.3(n)]

"Interference" is defined as "…a discharge which, alone or in conjunction with a discharge or discharges from other sources, both: (1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and (2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in

[2] The City began to deploy some of the new WWTP unit processes in June 2011.

compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act." [40 CFR 403.3(k)]

Under normal circumstances, when an NPDES Discharger is required to develop a Pretreatment Program pursuant to 40 CFR Part 403, the NPDES Discharger (a.k.a. "Control Authority") needs to establish the appropriate Maximum Allowable Headworks Loadings (MAHLs) for each constituent of concern (COC) to prevent Pass Through and Interference and control sludge quality at its POTW. Allowable Headworks Loadings (AHLs) for each COC are calculated based on the most stringent environmental criteria (e.g., receiving water limitation as opposed to effluent limitation); and based on the WWTP's flow rates, design criteria, key unit processes, and the removal efficiency of those processes. The most stringent of the calculated AHLs for a particular constituent is chosen as the MAHL for that particular constituent. This calculation must be done for each COC. Then, the MAHL for each COC serves as a basis for establishing the Maximum Allowable Industrial Loading (MAIL) for each COC.

The MAIL becomes the maximum pollutant loading the POTW can receive from controllable sources—namely industrial users (IUs) or any other user the Control Authority decides to regulate. The MAIL for a particular constituent is calculated by subtracting from the MAHL the total loading contribution from uncontrolled sources, hauled wastes, plus growth allowance. The MAHL is further adjusted by a factor of safety that can be as low as 10 percent, but in most cases is 20 percent.[3] MAHLs and MAILs are quantitative limits and make the determination of Pass Through and Interference a fairly straight forward arithmetic comparison. For example, if the City had established the MAHL for ammonia for its WWTP at 1000 lb/day, and the incoming ammonia loading into the headworks exceeded the MAHL, then the typical result would be that the incoming load would cause Pass Through and Interference. Also, if the City only had one IU for which it had established an ammonia MAIL of 100 lbs/day, and if the IU discharged ammonia at a greater rate than 100 lbs/day, this typically would result in Pass Through and Interference. On the other hand, if the City had more than one IU for which it had established MAILs, and if one of the IUs exceeded its MAIL, this could, but does not necessarily mean that it would, result in Pass Through and Interference. It would depend on the magnitude of the exceedance. Regardless, this would also typically trigger a response from the Control Authority (e.g., some type of enforcement against the IU).

In this case, for the reviewing period, the City never established MAHLs and MAILs in accordance with 40 CFR Part 403. Consequently, one needs to rely on the water quality standard for each COC (e.g., ammonia receiving water limitation), the City's NPDES Permit limitations, and on the empirical evidence available for the City POTW and its IUs to determine Pass Through and Interference and identify its source(s). In other words, based on available monitoring data, one would need to evaluate: (1) the actual performance and NPDES compliance of the POTW, (2) the contribution of COCs (in this case ammonia, TSS, BOD, and bacteria) from the City's controllable and uncontrollable sources, (3) any documented POTW upset that can be linked directly to an IU's discharge, (4) typical removal efficiency of the main unit processes at the POTW, and (5) the overall POTW removal efficiency (and/or treatment

[3] *Local Limit Development Guidance*, USEPA 833-R-04-002A, July 2004.

inhibition). The following sections contain my findings regarding this evaluation of Pass Through and Interference.

Findings

Sources of Ammonia— Nitrogen enters the City WWTP mainly in the form of organic nitrogen (primarily from residential/domestic sources) and ammonia (primarily from commercial and industrial sources). The City has two Non-Categorical Significant Industrial Users, as defined by 40 CFR 403.3(v): Pioneers Memorial Hospital (PMH) and NBC. NBC discharges approximately 1.62 mgd into the City POTW, while PMH discharges an estimated 91,000 gpd. To develop its Pretreatment Program, the City collected, among other pollutants of concern, ammonia monitoring data to characterize the loading from its residential, commercial, and industrial sources into the City WWTP. Based on the data and flow discharged by its residential, commercial, and industrial sources, the City calculated that ammonia load into the WWTP was approximately 1818 lbs/day, with the following breakdown by sources:[4]

Source	Ammonia Load (lbs/day)
Uncontrolled	
Residential	414
Commercial	36
Controlled (i.e., Industrial Sources)	1212
Load into WWTP	1818

Data provided by the City for the discharge from PMH indicate that the discharge has an average ammonia concentration of 14.5 mg/l and an average ammonia loading rate of 11 lbs/day (see Table 1, attached), which is less than 1% of the total WWTP ammonia load. Therefore, I conclude that PMH is not, nor has it ever been, a significant source of ammonia into the WWTP. The pollutants of concern (POCs) in the discharge from PMH are other organic (and some inorganic) substances such as pharmaceuticals, radionuclides, solvents, and disinfectants.[5]

Self-monitoring data provided by the City indicate that prior to the slaughterhouse going into operations in late October 2001 the City WWTP was already dealing with loads in the 300 to 500 lbs/day range from its residential and commercial users. That range of ammonia loading was already causing noncompliance with the City's NPDES permit toxicity provisions because evidently (a) the City had not established institutional controls (e.g., properly developed local limits) to deal with the incoming ammonia headworks load, which is discussed in more detail in the following Section of this memorandum; and (b) the WWTP the City had at that time lacked the ability to reduce ammonia to nontoxic levels. Had the City established adequate institutional controls, very likely the MAHL for ammonia would have yielded a "negative" value. There is written guidance from USEPA to deal with such situations, including establishment of interim local limits that are based on the NPDES permit limits.[6] If the City had established such interim

[4] *City of Brawley Local Limits Study*, Appendix IV, Loading Summary, December 2013. Please note that the contribution from uncontrolled and controlled sources does not add up to the reported total load into the WWTP because the contributions were calculated from "averages." Consequently, there is a difference of about 156 lbs/day (i.e., about 10% error).

[5] *City of Brawley Local Limits Study*, p.8, December 2013.

[6] *Region III Guidance for Setting Local Limits for a Pollutant Where the Domestic Loading Exceeds the Maximum Allowable Headworks Loading,* USEPA Region III, June 9, 1994.

local limits, most likely NBC would have had to completely eliminate its ammonia loading to the POTW.

After the slaughterhouse went into operations, the ammonia effluent concentrations and, more importantly, the daily ammonia load discharged into the WWTP and from the WWTP into the New River increased significantly (they essentially doubled and in some months tripled!). Tables 2 and 3, attached, show the daily and monthly ammonia load discharged by the City WWTP, respectively. Since 2003, the City has issued numerous citations against the slaughterhouse for discharging very high concentrations of ammonia into the City POTW. Table 4, attached, shows the ammonia loading from NBC into the POTW. As shown by Table 4, NBC has discharged ammonia slug loads into the WWTP as high as 1122 lbs/day. In 2010, the City started assessing "penalties"[7] against NBC based on an ordinance the City adopted in 2001 because the discharge from the slaughterhouse contained ammonia, TSS, and BOD at concentrations that exceeded the City's limitations for NBC for those constituents. Based on the foregoing, self-monitoring data provided by the City of Brawley, special studies conducted by the City (e.g., Toxicity Identification Evaluations (TIEs) and Toxicity Reduction Evaluations (TREs)), and self-monitoring data provided by NBC, I conclude that the slaughterhouse has been the main controllable source of ammonia into the City WWTP.

Ammonia Removal at the City WWTP—As previously discussed in ACLC R7-2013-0028, prior to the City's new WWTP being officially commissioned in March 2012, the City operated various WWTP configurations whose main unit treatment process was ponds (mainly facultative and/or aerated ponds).[8] At times, pond treatment was preceded by clarification. While there are studies that indicate that pond systems (e.g., facultative and aerated ponds) that are designed and operated under ideal conditions can remove up to 90% of ammonia, and while there are several models that can be used to project how much of it may be removed, the removal efficiency is not sustainable during the winter months.[9] Further, according to USEPA, it is difficult to control the levels of ammonia in the effluent from facultative lagoons,[10] which is more in line with my experience in dealing with facultative lagoons. As a matter of fact, even when the City reconfigured its WWTP to optimize nitrogen removal in 2006, the improvements failed to achieve the intended results (see Finding 15 of ACLC R7-2013-0028).

For nitrogen to be removed from the wastewater without adding chemicals (i.e., biologically; a.k.a. "Biological Nutrient Removal"), it must be converted into gaseous nitrogen. Most of the organic nitrogen is hydrolyzed into ammonia (gaseous NH3) almost immediately after it enters the WWTP. Then it is converted into ionized ammonia (NH4). The next step is to convert the remaining organic nitrogen and ionized ammonia into the other two main forms of inorganic nitrogen: nitrite and nitrate. This is typically accomplished by autotrophic bacteria (*Nitrosomonas & Nitrobacter*). However, after nitrification occurs in ponds, nitrate is very stable

[7] In reality, these "penalties" were wastewater surcharges NBC had to pay for exceeding the limits the City imposed on it for the quality of the discharge. As a result, they were quasi-penalties because they did not have the effect that true penalties would have (e.g., they did not serve as a deterrent offset the environmental impact NBC was causing, or address the economic advantage NBC was enjoying by not spending money to prevent Pass Through and Interference, etc.).

[8] Please note here that when the slaughterhouse started discharging into the City WWTP, the WWTP was pretty much running at its then-design capacity already (the Discharger was under a TSO requiring plant expansion).

[9] *Principles of Design and Operations of Wastewater Treatment Pond Systems for Plant Operators, Engineers, and Managers*, EPA/600/R-11/088, p 6-9, USEPA, August 2011.

[10] *Wastewater Technology Fact Sheet*, USEPA, Office of Water, EPA 832-F-02-014, September 2002.

and not easily removed from the wastewater. Dinitrification occurs in an anoxic environment[11] and is carried out by heterotrophic bacteria. Facultative ponds lack the ability to reliably produce an anoxic environment throughout the wastewater column or in sufficiently discrete pond zones to denitrify. The combined oxygen available in the anoxic environment "oxidizes" the ammonia into gases. Even if the ponds create an anoxic environment, however, that environment must be controlled to be effective. Otherwise, it is an unreliable treatment process for the purposes of removing ammonia.[12] Further, even in ponds where the Dissolved Oxygen is minimal (e.g., 0.2 mg/l), there is virtually no denitrification. Regardless of the process by which ammonia is removed or where and how it is removed by the treatment system, the bottom line is the net amount of ammonia removed from the wastewater prior to discharging it into the receiving waters must be sufficient to meet effluent limitations. In this case, the available data indicate the City WWTP was not very effective in removing ammonia. The fact that the City did not establish adequate controls to effectively deal with the incoming ammonia load during the reviewing period—a fact well documented by Cease and Desist Order R7-2008-0008—coupled with NBC's failure to take decisive measures to control its pollutant contribution into the WWTP, only made the problem worse.

I analyzed the available ammonia data for the City WWTP to calculate net amount of ammonia removal at the City WWTP. Table 5, attached, shows the City WWTP ammonia influent and effluent concentrations, and calculations for the net ammonia removed from the wastewater by the City WWTP during the subject period (5/2001 to 3/2012)[13]. The data in the Table indicate that:

1. 79% of the time during this period, ammonia removal was less than 30%;
2. 63% of the time during this period, ammonia removal was less than 10%;
3. 52% of the time during this period, ammonia removal was less than 5%; and
4. 49% of the time during this period, ammonia removal was essentially less than 2.5% (i.e., essentially there was no removal).

Analysis of the data shows the discharge from the slaughterhouse caused nitrogen build up in the City WWTP to a point that: (1) it rendered removal insignificant and thus, it passed through the City WWTP; and (2) some of the accumulated nitrogen (e.g., organic and inorganic nitrogen in the biomass and sludge that had settled in the ponds) was at times also released again into the wastewater column, which exacerbated the nitrogen loading of the City WWTP. The continuous incoming high ammonia load from the slaughterhouse only made the problem worse.

Ammonia Violations—Self-monitoring reports submitted by the City of Brawley for its WWTP indicate that the City violated:

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[11] An anoxic environment is a condition in which oxygen is available in the combined form only, such as NO_3, SO_4; there is no free oxygen. This is not to be confused with an anaerobic environment, a condition in which free and dissolved oxygen is unavailable.

[12] Nitrogen is also removed from the wastewater by wasting and removing mass (e.g., sludge).

[13] There are gaps in the influent monitoring data for 2002 and 2003. Consequently, influent and effluent data are available only for 90 months of the reviewing period.

1. Its average monthly concentration effluent limit for ammonia contained in WDRs Order R7-2005-0021 (Effluent Limitations and Discharge Specifications IV.A.1.b) on 21 different months (see Table 3 for 2/2007 to 11/2008);

2. Its maximum daily concentration effluent limit for ammonia contained in WDRs Order R7-2005-0021 (Effluent Limitations and Discharge Specifications IV.A.1.b) on 92 different occasions (see Table 3 for 2/7/2007 through 11/17/2008);

3. Its average monthly mass effluent limit for ammonia contained in WDRs Order R7-2005-0021 (Effluent Limitations and Discharge Specifications IV.A.1.b) on 21 different months (see Table 3 for 2/2007 to 11/2008);

4. Its maximum daily mass effluent limit for ammonia contained in WDRs Order R7-2005-0021 (Effluent Limitations and Discharge Specifications IV.A.1.b) on 92 different occasions (see Table 2 for 2/7/2007 through 11/17/2008);

Further, the City of Brawley also violated its NPDES Permit BOD, TSS, and bacteria effluent limitations as follows:

1. Its Average Monthly and Average Weekly BOD effluent limits contained in WDRs Order R7-2005-0021 (Effluent Limitation A.2) one time;

2. Its Average Monthly and Average Weekly BOD effluent limits contained in WDRs Order R7-2010-0022 (Effluent Limitation IV.A.1.a) on 3 and 7 different occasions, respectively;

3. Its Monthly and Average Weekly TSS effluent limits contained in WDRs Order R7-2010-0022 (Effluent Limitation IV.A.1.a) on 1 and 1 different occasions, respectively;

4. Its Maximum Fecal Coliform effluent limit contained in WDRs Order R7-2010-0022 (Effluent Limitation IV.A.1.d) on 3 different occasions;

5. Its Maximum Enterococci effluent limit contained in WDRs Order R7-2005-0021 (Effluent Limitation IV.A.1.e) on 1 occasion;

6. Its Maximum and Geometric Mean Enterococci effluent limits contained in WDRs Order R7-2010-0022 (Effluent Limitation IV.A.1.d) on 24 and 5 different occasions, respectively;

7. Its Maximum and Geometric Mean E. Coli effluent limits contained WDRs Order WDRs R7-2005-0021 (Effluent Limitation IV.A.1.e) on 7 and 2 different occasions, respectively; and

8. Its Maximum and Geometric Mean E. Coli effluent limits contained WDRs Order WDRs R7-2010-0022 (Effluent Limitation (IV.A.1.d) on 2 and 2 different occasions, respectively.

Toxicity Violations—In 2002, the City of Brawley conducted Toxicity Identification Evaluation (TIE) studies to determine the cause and source(s) of toxicity. It submitted the results of its study in reports dated July 2, 2001 and July 3, 2002. The reports linked total and unionized ammonia as the primary toxicant for Ceriodapnia dubia and Pimephales promelas (fathead

minnow). Review of toxicity monitoring data for the City indicates that from January 2001 through June 2011 the City WWTP effluent consistently exhibited chronic and acute toxicity. Table 6, attached, summarizes the toxicity monitoring data.

As shown by Table 6, there was acute toxicity on 101 different months, and there was also chronic toxicity on 75 different months in the City WWTP. Consequently, the City of Brawley violated WDRs Orders 00-087, R7-2005-0021, and R7-2010-0022. The breakdown of the violations is as follows:

1. The City violated Effluent Limitation A.6 of WDRs Order 00-087 on 44 months for acute toxicity and on 32 months for chronic toxicity for the period covering from January 2001 to June 2005;

2. Because the City discharge was toxic, as demonstrated by bioassays, the City also violated Receiving Water Limitations B.1.j and B.1.l of WDRs Order 00-087 during 38 months for the period covering from October 2001 through June 2005;

3. Because the City discharge was toxic, the City violated Receiving Water Limitations V.A.1.j and V.A.1.k of WDRs Order R7-2005-0021 during 44 months for the period covering from July 2005 through May 2010; and

4. Because the City discharge was toxic, the City violated Receiving Water Limitations V.A.10 and V.A.11 of WDRs Order R7-2010-0022 during 13 months for the period covering June 2010 through July 2011.

Other Violations—Data provided by the City indicates that the City cited NBC for slug discharges into the City POTW. Specifically, the City has cited NBC on at least 95 different occasions for alleged discharges into the POTW in violation of City limits. Further, based on TSS results for daily composite effluent samples collected from the NBC WWTF, NBC has discharged into the City WWTP slug loads of TSS with concentrations as high as 8,114 mg/L, which equate to 55,935 lbs/day of TSS into the City WWTP. This TSS load was approximately more than four times greater than the typical City WWTP's incoming TSS load, which was estimated by the City of Brawley at 12,570 lbs/day pursuant to the development of its Pretreatment Program.[14] Table 7, which is based on monitoring data for the discharge from the NBC WWTF, shows additional slug discharges from the NBC WWTF into the City POTW. Table 8, also based on the same monitoring data, shows the overall average monthly BOD and TSS load from the NBC WWTF into the City POTW. These types of slugs have significant potential for contributing, and undoubtedly did contribute, to the City's violations.

Conclusions and Recommendations

Because the City violated its NPDES Permit ammonia effluent limitations contained in WDRs Orders R7-2005-0021 and R7-2010-0022; its NPDES Permit toxicity Effluent Limitation A.6 contained in WDRs Order 00-087; its NPDES Permit Receiving Water Limitations contained in WDRs Orders 00-087, R7-2005-0021, and R7-2010-0022; and because the discharge from NBC was a significant source of ammonia which caused and/or contributed to the violations and their magnitude and frequency, the discharge from NBC into the City POTW caused significant and severe Pass Through and/or Interference, as defined by 40 CFR. Further, NBC did not

[14] City of Brawley Local Limits Study, Table 3.5, p. 23, December 2013.

start implementing effective measures to prevent Pass Through and Interference until early 2013, when performance data for the slaughterhouse WWTF show that there was a significant decrease in the ammonia concentrations discharged by the slaughterhouse into the City POTW (see Table 4 – NBC Ammonia Data). Therefore, based on my comprehensive review and analysis of this information, it is my recommendation that the Colorado River Basin Water Board should issue an administrative civil liability complaint against NBC.

Attachment A - Key NPDES Permit Limitations in Effect since 2001 to Date

	Table A.1 - Key Effluent Limitations of WDRs Order 00-087						
	Constituent	Max	30-day Mean	7-day Mean	Min 30-day Avg % Removal	Log Mean of 5 samples	Toxicity Monitoring
WDRS Order 00-087 6/2000 to 6/28/2005	BOD		45	65	65		
	TSS		95	--	65		
	SM		0.3	0.5			
	Fecal Coli	400				200	
	Flow (mgd)	3.9					
	Receiving Water Limitation B.1.j: "…[The discharge shall not cause the following in the New River] The chemical constituents to exceed concentrations that adversely affect beneficial uses." or create nuisance						
	Receiving Water Limitation B.1.l: "...[The Discharge shall not cause the following in the New River...] Toxic pollutants to be present in the water column, sediments or biota in concentrations that adversely affect beneficial uses or that produce detrimental physiological responses in human, plant, animal, or aquatic life."						
	Receiving Water Limitation A.6: "there shall be no acute toxicity in WWTP effluent nor chronic toxicity in receiving waters"						
	High Acute Toxicity	< 80% survival, when calculated from chronic toxicity results					Acute & Chronic Monthly
		< 90% survival, when calculated from acute toxicity results					

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	Table A.2 - Key Effluent Limitations of WDRs Order R7-2005-0021						
	Constituent	Max	30-day Mean	7-day Mean	Min 30-day Avg % Removal	Log Mean of 5 samples	Toxicity Monitoring
WDRS Order R7-2005-0021 (effective on 6/29/2005 through 5/19/2010)	BOD (mg/L)		45	65	65		
	BOD (lbs/day)		2200	3200			
	TSS (mg/L)		45	65	65		
	TSS (lbs/day)		2200	3200			
	SM (mg/ml)		0.3	0.5			
	E Coli (MPN)	400				126	
	Flow (mgd)	5.9					
	NH3 (mg/L)	12	1.1	Effective on 2/2007			
	NH3 (lbs/day)	590	54				
	Receiving Water Limitation (Section V) A.1.k: "…[The discharge shall not cause the following in the New River…] toxicants pollutants to be present in the water column…in concentrations that affect beneficial uses or produe detrimental physiological responses in humans, plant, animal, plant, or aquatic life."						
	Receiving Water Limitation (Section V) A.1.j: "…"[The discharge shall not cause the following in the New River…] No individual chemical or combination of chemicals shall be present in concentrations that affect beneficial uses."						
	Trigers for Increased Toxicity Monitoring (High Toxicity)	Any chronic > 2 TU; or 3-sample median > 1 TU					Acute & Chronic Monthly
		< 80% survival, when calculated from chronic toxicity results					
		< 90% survival, when calculated from acute toxicity results					

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	Table A.3 - Permit Limitations for Old WWTFs						
	Constituent	Max	30-day Mean	7-day Mean	Min 30-day Avg % Removal	Log Mean of 5 samples	Toxicity Monitoring
WDRS Order R7-2010-0022 (5/20/2010 through Feb 2012, except for ammonia)	BOD (mg/L)		45	65	65		
	BOD (lbs/day)		2214	3198			
	TSS (mg/L)		45	65	65		
	TSS (lbs/day)		2214	3198			
	SM (mg/ml)		0.3	0.5			
	E Coli (MPN)	400				126	
	Flow (mgd)	5.9					
	NH3 (mg/L)	3.2	2.1	Effective after CDO is rescinded			
	NH3 (lbs/day)	157	103				
	Receiving Water Limitation (Section V) A.10: "…"[The discharge shall not cause the following in the New River…] Result in the discharge of a single chemical or combination of chemicals shall be present in concentrations that affect beneficial uses."						
	Receiving Water Limitation (Section V) A.11: "…[The discharge shall not cause the following in the New River…] Result in toxicants pollutants to be present in the water column…in concentrations that affect beneficial uses or produe detrimental physiological responses in humans, plant, animal, plant, or aquatic life."						
	Trigers for Increased Toxicity Monitoring (High Toxicity)	Any chronic > 2 TU; or 3-sample median > 1 TU					Acute & Chronic Monthly
		< 80% survival, when calculated from chronic toxicity results					
		< 90% survival, when calculated from acute toxicity results					

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	Table A.4 - Upgraded Facility Limitations						
	Constituent	Max	30-day Mean	7-day Mean	Min 30-day Avg % Removal	Log Mean of 5 samples	Toxicity Monitoring
WDRS Order R7-2010-0022 (effective March 2012 to Present, except for ammonia)	BOD (mg/L)		30	45	85		
	BOD (lbs/day)		1476	2214			
	TSS (mg/L)		30	45	85		
	TSS (lbs/day)		1476	2214			
	SM (mg/ml)		0.3	0.5			
	E Coli (MPN)	400				126	
	Flow (mgd)	5.9					
	NH3 (mg/L)	3.2	2.1	Effective after CDO is rescinded			
	NH3 (lbs/day)	157	103				
	Receiving Water Limitation (Section V) A.10: "…"[The discharge shall not cause the following in the New River…] Result in the discharge of a single chemical or combination of chemicals shall be present in concentrations that affect beneficial uses."						
	Receiving Water Limitation (Section V) A.11: "…[The discharge shall not cause the following in the New River…] Result in toxicants pollutants to be present in the water column…in concentrations that affect beneficial uses or produe detrimental physiological responses in humans, plant, animal, plant, or aquatic life."						
	Trigers for Increased Toxicity Monitoring (High Toxicity)	Any chronic > 2 TU; or 3-sample median > 1 TU; 100% failed t-test for acute					Acute & Chronic Monthly
		< 80% survival, when calculated from chronic toxicity results					
		< 90% survival, when calculated from acute toxicity results					

NBC_ACLC_PT-001674

	Table A.5 - Interim Ammonia Limits		
CDO R7-2008-0008 and Amendment R7-2008-0069 (effective 11/2008 to Present)	Constituent	Max Daily	30-day Mean
	NH3 (mg/L)	120	120
	NH3 (lbs/day)	5900	5900

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Table 1 - PMH Ammonia Loading			
Date	Ammonia (mg/L)	Flow (mgd)	Ammonia Load (lbs/day)
6/12/2013	59.36	0.091	45.05
6/24/2013	11.20	0.091	8.50
7/2/2013	14.56	0.091	11.05
9/4/2013	11.20	0.091	8.50
10/2/2013	8.40	0.091	6.38
11/4/2013	10.08	0.091	7.65
12/9/2013	8.40	0.091	6.38
1/8/2014	5.04	0.091	3.83
2/5/2014	2.24	0.091	1.70
Avg	14.50		11.00

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
1/2/2001	3.34	N-Avail	20.70	NA[2]	577	NA	NA
1/8/2001	3.14	N-Avail	22.00	NA	576	NA	NA
2/5/2001	3.08	N-Avail	16.90	NA	434	NA	NA
2/7/2001	3.07	N-Avail	17.80	NA	456	NA	NA
3/5/2001	3.32	N-Avail	17.10	NA	473	NA	NA
4/4/2001	2.97	N-Avail	15.50	NA	384	NA	NA
4/11/2001	3.07	N-Avail	16.90	NA	433	NA	NA
5/3/2001	3.01	23.10	18.50	NA	464	NA	NA
5/10/2001	2.97	22.50	20.00	NA	495	NA	NA
6/6/2001	3.07	22.50	14.80	NA	379	NA	NA
6/13/2001	3.04	27.30	15.00	NA	380	NA	NA
7/5/2001	3.12	17.00	20.10	NA	523	NA	NA
7/10/2001	3.04	13.60	4.30	NA	109	NA	NA
8/1/2001	3.1	2.80	2.70	NA	70	NA	NA
8/8/2001	3.2	20.60	11.90	NA	318	NA	NA
9/5/2001	3.4	13.50	12.20	NA	346	NA	NA
9/6/2001	3.4	14.90	12.20	NA	346	NA	NA
10/3/2001	3.35	12.20	11.60	NA	324	NA	NA
10/10/2001	3.21	14.30	12.00	NA	321	NA	NA
11/7/2001	2.98	14.30	14.40	NA	358	NA	NA
11/14/2001	3.19	15.90	17.10	NA	455	NA	NA
12/5/2001	3.12	17.70	19.70	NA	513	NA	NA
12/12/2001	3.17	19.20	19.40	NA	513	NA	NA
1/2/2002	3.04	21.70	20.4	NA	517	NA	NA
1/9/2002	3.14	21.20	20.7	NA	542	NA	NA
2/6/2002	N-Avail	17.40	20.1	NA	NA	NA	NA
2/13/2002	N-Avail	28.50	21.5	NA	NA	NA	NA
3/6/2002	2.74	N-Avail	30.8	NA	704	NA	NA
3/13/2002	2.76	N-Avail	36.8	NA	847	NA	NA
4/3/2002	2.35	N-Avail	23.8	NA	466	NA	NA
4/10/2002	2.29	N-Avail	28.9	NA	552	NA	NA

[1] Data on this table is based on Self-monitoring reports (SMRs) submitted by the City of Brawley to the Colorado River Basin Water Board.

[2] Not Applicable. WDRs Order No. 00-0087 in effect from 6/28/2000 through 6/28/2005. It does not establish ammonia effluent limits.

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
5/1/2002	2.65	N-Avail	45.2	NA	999	NA	NA
5/8/2002	2.98	N-Avail	32.6	NA	810	NA	NA
6/5/2002	2.83	N-Avail	37.7	NA	890	NA	NA
6/12/2002	2.53	N-Avail	34.6	NA	730	NA	NA
7/10/2002	N/A	N-Avail	33.3	NA	NA	NA	NA
7/17/2002	2.3	N-Avail	34.8	NA	668	NA	NA
8/7/2002	3.4	N-Avail	37.8	NA	1072	NA	NA
8/14/2002	3.34	N-Avail	29.4	NA	819	NA	NA
9/4/2002	3.53	N-Avail	27.9	NA	821	NA	NA
9/11/2002	3.41	N-Avail	25.8	NA	734	NA	NA
10/2/2002	3.48	N-Avail	30	NA	871	NA	NA
10/9/2002	2.7	N-Avail	30	NA	676	NA	NA
11/6/2002	3.22	N-Avail	40	NA	1074	NA	NA
11/13/2002	3.2	N-Avail	30	NA	801	NA	NA
12/4/2002	3.29	N-Avail	20	NA	549	NA	NA
12/11/2002	3.24	N-Avail	36.6	NA	989	NA	NA
1/2/2003	3.1	N-Avail	60	NA	1551	NA	NA
1/9/2003	3.32	N-Avail	30	NA	831	NA	NA
2/4/2003	2.7	N-Avail	30	NA	676	NA	NA
2/12/2003	3	N-Avail	30	NA	751	NA	NA
3/5/2003	2.89	N-Avail	36.3	NA	875	NA	NA
3/12/2003	2.82	N-Avail	45.9	NA	1080	NA	NA
4/2/2003	3.59	N-Avail	43.8	NA	1311	NA	NA
4/9/2003	3.24	N-Avail	47	NA	1270	NA	NA
5/7/2003	3.37	N-Avail	40	NA	1124	NA	NA
5/14/2003	3.23	N-Avail	30	NA	808	NA	NA
6/4/2003	3.71	N-Avail	30	NA	928	NA	NA
6/11/2003	3.43	N-Avail	40	NA	1144	NA	NA
7/2/2003	3.19	N-Avail	32.3	NA	859	NA	NA
7/9/2003	3.42	N-Avail	34.7	NA	990	NA	NA
8/6/2003	3.5	N-Avail	22.4	NA	654	NA	NA
8/13/2003	3.78	N-Avail	22.4	NA	706	NA	NA
9/3/2003	3.18	N-Avail	23.8	NA	631	NA	NA
9/10/2003	3.41	N-Avail	26.3	NA	748	NA	NA
10/1/2003	3.24	N-Avail	17.64	NA	477	NA	NA

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
10/8/2003	3.29	N-Avail	20.72	NA	569	NA	NA
11/5/2003	3.04	N-Avail	2.24	NA	57	NA	NA
11/12/2003	3.16	N-Avail	0.56	NA	15	NA	NA
12/3/2003	2.83	N-Avail	22.96	NA	542	NA	NA
12/9/2003	2.43	N-Avail	25.3	NA	513	NA	NA
1/7/2004	3.4	N-Avail	26.88	NA	762	NA	NA
1/14/2004	3.39	N-Avail	28	NA	792	NA	NA
2/4/2004	3.32	N-Avail	27.4	NA	759	NA	NA
2/11/2004	3.34	N-Avail	25.76	NA	718	NA	NA
3/3/2004	3.92	N-Avail	23.52	NA	769	NA	NA
3/10/2004	3.51	N-Avail	25.2	NA	738	NA	NA
4/7/2004	3.46	N-Avail	21.28	NA	614	NA	NA
4/14/2004	3.18	N-Avail	21.28	NA	564	NA	NA
5/5/2004	3.22	N-Avail	3.36	NA	90	NA	NA
5/12/2004	3.24	N-Avail	ND	NA	NA	NA	NA
6/2/2004	3.17	N-Avail	1.68	NA	44	NA	NA
6/9/2004	3.55	N-Avail	2.8	NA	83	NA	NA
7/7/2004	3.02	N-Avail	1.12	NA	28	NA	NA
7/14/2004	3.52	N-Avail	2.8	NA	82	NA	NA
8/4/2004	3.46	N-Avail	1.68	NA	48	NA	NA
8/11/2004	3.45	N-Avail	1.12	NA	32	NA	NA
9/1/2004	3.7	N-Avail	2.24	NA	69	NA	NA
9/8/2004	3.15	N-Avail	1.68	NA	44	NA	NA
10/6/2004	3.52	N-Avail	0.56	NA	16	NA	NA
10/13/2004	3.43	N-Avail	1.12	NA	32	NA	NA
11/3/2004	3.24	N-Avail	1.68	NA	45	NA	NA
11/10/2004	3.28	N-Avail	1.68	NA	46	NA	NA
12/8/2004	4.5	N-Avail	23.52	NA	883	NA	NA
12/15/2004	3.58	N-Avail	29.12	NA	869	NA	NA
1/5/2005	4.71	N-Avail	33.6	NA	1320	NA	NA
1/12/2005	3.72	N-Avail	34.72	NA	1077	NA	NA
2/2/2005	3.24	N-Avail	21.84	NA	590	NA	NA
2/9/2005	3.24	N-Avail	32.48	NA	878	NA	NA
3/2/2005	3.25	N-Avail	28.56	NA	774	NA	NA
3/9/2005	3.43	N-Avail	29.68	NA	849	NA	NA

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
4/6/2005	3.2	N-Avail	32.48	NA	867	NA	NA
4/13/2005	2.7	N-Avail	29.12	NA	656	NA	NA
5/4/2005	2.96	N-Avail	23.52	NA	581	NA	NA
5/11/2005	2.75	N-Avail	17.36	NA	398	NA	NA
6/1/2005	3.36	N-Avail	17.92	NA	502	NA	NA
6/8/2005	3.44	N-Avail	4.48	NA	129	NA	NA
7/6/2005	2.68	20.16	16.8	NA[3]	376	NA	NA
7/13/2005	3.49	21.84	21.28	NA	619	NA	NA
7/20/2005	3.23	18.00	N-Avail	NA	NA	NA	NA
7/27/2005	3.29	18.00	N-Avail	NA	NA	NA	NA
8/3/2005	4.5	16.24	19.04	NA	715	NA	NA
8/10/2005	4.85	14.56	20.16	NA	815	NA	NA
8/17/2005	3.74	17.92	17.92	NA	559	NA	NA
8/24/2005	3.27	15.68	18.48	NA	504	NA	NA
8/31/2005	3.02	15.68	16.8	NA	423	NA	NA
9/7/2005	20.88	12.88	13.44	NA	2340	NA	NA
9/14/2005	3.35	17.92	17.92	NA	501	NA	NA
9/21/2005	4.2	20.16	20.16	NA	706	NA	NA
9/28/2005	3.34	16.24	17.92	NA	499	NA	NA
10/5/2005	3.24	19.04	19.04	NA	514	NA	NA
10/12/2005	3.25	19.60	19.04	NA	516	NA	NA
10/19/2005	3.88	20.16	20.16	NA	652	NA	NA
10/26/2005	3.38	21.28	20.72	NA	584	NA	NA
11/2/2005	3.24	13.44	10.08	NA	272	NA	NA
11/9/2005	3.39	19.04	8.4	NA	237	NA	NA
11/16/2005	3.34	19.04	18.48	NA	515	NA	NA
11/22/2005	3.38	21.28	20.16	NA	568	NA	NA
11/30/2005	3.59	26.88	26.32	NA	788	NA	NA
12/7/2005	3.69	28.56	26.88	NA	827	NA	NA
12/14/2005	3.95	25.76	25.2	NA	830	NA	NA
12/21/2005	3.87	33.04	31.92	NA	1030	NA	NA
12/28/2005	3.07	29.12	27.44	NA	703	NA	NA
1/4/2006	3.49	31.92	25.76	NA	750	NA	NA

[3] WDRs Order R7-2005-0021 is adopted on 6/29/2005. From 6/29/2005 through Jan 2007, no Ammonia Limits. Effective 2/1/2007, WDRs R7-2005-0021 set Max. Daily Limits for NH3 at 12 mg/L and 590 lb/day @ 5.9 mgd.

NBC_ACLC_PT-001680

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
1/11/2006	3.41	29.68	29.12	NA	828	NA	NA
1/18/2006	3.62	29.12	25.2	NA	761	NA	NA
1/25/2006	3.62	24.64	25.76	NA	778	NA	NA
2/1/2006	3.47	26.88	29.68	NA	859	NA	NA
2/8/2006	3.38	29.68	30.8	NA	868	NA	NA
2/15/2006	3.44	24.64	30.8	NA	884	NA	NA
2/22/2006	3.49	26.88	29.12	NA	848	NA	NA
3/1/2006	3.57	27.44	24.08	NA	717	NA	NA
3/8/2006	3.88	25.20	28.56	NA	924	NA	NA
3/15/2006	4.2	25.20	27.44	NA	961	NA	NA
3/22/2006	3.76	24.67	29.12	NA	913	NA	NA
3/29/2006	3.56	26.88	30.24	NA	898	NA	NA
4/5/2006	3.65	25.76	31.36	NA	955	NA	NA
4/12/2006	3.42	23.52	30.8	NA	879	NA	NA
4/19/2006	2.45	26.32	32.48	NA	664	NA	NA
4/26/2006	3.45	33.04	31.92	NA	918	NA	NA
5/3/2006	3.24	24.64	30.8	NA	832	NA	NA
5/10/2006	3.35	34.16	30.8	NA	861	NA	NA
5/18/2006	3.51	24.80	29.12	NA	852	NA	NA
5/24/2006	3.7	38.08	33.6	NA	1037	NA	NA
5/31/2006	2.68	33.60	31.92	NA	713	NA	NA
6/21/2006	N-Avail	28.56	N-Avail	NA	NA	NA	NA
6/28/2006	N-Avail	29.68	30	NA	NA	NA	NA
7/5/2006	3.65	36.40	33.6	NA	1023	NA	NA
7/12/2006	3.79	30.24	37.52	NA	1186	NA	NA
7/19/2006	3.77	31.36	33.04	NA	1039	NA	NA
7/26/2006	3.79	29.12	36.4	NA	1151	NA	NA
8/2/2006	3.72	27.44	27.44	NA	851	NA	NA
8/9/2006	4.17	29.68	27.44	NA	954	NA	NA
8/16/2006	3.68	22.40	23.52	NA	722	NA	NA
8/23/2006	3.75	25.20	24.64	NA	771	NA	NA
8/30/2006	3.64	22.40	27.77	NA	843	NA	NA
9/6/2006	3.54	19.60	22.96	NA	678	NA	NA
9/13/2006	3.84	24.64	25.76	NA	825	NA	NA
9/20/2006	3.94	26.32	36.4	NA	1196	NA	NA

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
9/27/2006	3.7	26.32	31.72	NA	979	NA	NA
10/4/2006	3.54	26.32	27.44	NA	810	NA	NA
10/11/2006	3.56	32.48	30.8	NA	914	NA	NA
10/18/2006	3.18	68.88	17.36	NA	460	NA	NA
10/25/2006	3.43	21.28	22.96	NA	657	NA	NA
11/1/2006	3.64	24.64	32.48	NA	986	NA	NA
11/8/2006	3.54	20.72	26.82	NA	792	NA	NA
11/15/2006	3.69	31.92	21.84	NA	672	NA	NA
11/21/2006	4.17	30.24	36.4	NA	1266	NA	NA
11/29/2006	4.14	29.68	34.16	NA	1179	NA	NA
12/6/2006	4.02	36.40	33.04	NA	1108	NA	NA
12/13/2006	3.93	41.44	40.32	NA	1322	NA	NA
12/20/2006	3.73	33.04	35.28	NA	1097	NA	NA
12/27/2006	3.57	34.88	40.88	NA	1217	NA	NA
1/3/2007	3.81	30.86	35.28	NA	1121	NA	NA
1/10/2007	3.84	34.72	35.84	NA	1148	NA	NA
1/17/2007	3.87	34.72	35.87	NA	1158	NA	NA
1/24/2007	4.09	55.44	52.64	NA	1796	NA	NA
1/31/2007	4.04	52.64	50.96	NA	1717	NA	NA
2/7/2007	3.99	55.44	54.32	Yes[4]	1808	399	Yes
2/14/2007	3.84	57.12	55.44	Yes	1775	384	Yes
2/21/2007	4.06	58.24	57.12	Yes	1934	406	Yes
2/28/2007	3.96	37.52	36.4	Yes	1202	396	Yes
3/7/2007	4.11	26.88	14.56	Yes	499	411	Yes
3/14/2007	4.03	29.68	22.4	Yes	753	403	Yes
3/21/2007	3.95	30.24	29.12	Yes	959	395	Yes
3/28/2007	3.79	21.19	8.4	No	266	379	No
4/4/2007	3.46	31.26	25.76	Yes	743	346	Yes
4/11/2007	3.99	33.60	29.68	Yes	988	399	Yes
4/18/2007	3.77	33.60	4.48	No	141	377	No
4/25/2007	3.76	34.16	29.12	Yes	913	376	Yes
5/2/2007	3.69	34.72	31.36	Yes	965	369	Yes
5/9/2007	3.76	33.60	30.8	Yes	966	376	Yes
5/16/2007	3.6	34.72	31.92	Yes	958	360	Yes

[4] Effective 2/1/2007, WDRs R7-2005-0021 set Max. Daily Limits for NH3 at 12 mg/L and 590 lb/day @ 5.9 mgd.

NBC_ACLC_PT-001682

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
5/23/2007	3.52	34.72	31.92	Yes	937	352	Yes
5/30/2007	10.7	35.28	33.04	Yes	2948	1071	Yes
6/6/2007	3.68	29.68	30.8	Yes	945	368	Yes
6/13/2007	3.8	30.80	33.6	Yes	1065	380	Yes
6/20/2007	3.72	30.80	38.08	Yes	1181	372	Yes
6/27/2007	3.61	31.92	31.92	Yes	961	361	Yes
7/3/2007	3.8	30.80	32.48	Yes	1029	380	Yes
7/11/2007	3.72	32.48	32.48	Yes	1008	372	Yes
7/18/2007	3.6	30.90	33.6	Yes	1009	360	Yes
7/25/2007	3.67	30.24	28.56	Yes	874	367	Yes
8/1/2007	3.74	29.68	33.04	Yes	1031	374	Yes
8/8/2007	3.39	31.36	30.8	Yes	871	339	Yes
8/15/2007	3.64	26.32	32.48	Yes	986	364	Yes
8/22/2007	3.59	26.32	27.44	Yes	822	359	Yes
8/29/2007	3.81	27.44	33.04	Yes	1050	381	Yes
9/5/2007	3.86	26.88	27.44	Yes	883	386	Yes
9/12/2007	3.88	30.24	24.64	Yes	797	388	Yes
9/19/2007	3.62	25.20	32.48	Yes	981	362	Yes
9/26/2007	3.76	27.44	27.44	Yes	860	376	Yes
10/3/2007	3.52	22.96	20.16	Yes	592	352	Yes
10/10/2007	3.81	20.16	28	Yes	890	381	Yes
10/17/2007	3.64	21.24	16.24	Yes	493	364	Yes
10/24/2007	3.66	16.80	17.92	Yes	547	366	Yes
10/31/2007	3.96	19.60	19.04	Yes	629	396	Yes
11/7/2007	3.81	27.44	26.88	Yes	854	381	Yes
11/14/2007	4.31	14.00	15.12	Yes	543	431	Yes
11/19/2007	4.08	15.68	20.72	Yes	705	408	Yes
11/28/2007	4.07	17.92	18.48	Yes	627	407	Yes
12/5/2007	4.24	16.24	19.6	Yes	693	424	Yes
12/12/2007	3.71	17.36	20.16	Yes	624	371	Yes
12/19/2007	4.25	19.60	16.24	Yes	576	425	Yes
12/26/2007	3.65	17.36	19.04	Yes	580	365	Yes
1/2/2008	3.99	17.92	19.6	Yes	652	399	Yes
1/9/2008	4.77	21.84	21.28	Yes	847	477	Yes
1/16/2008	4.13	19.04	21.84	Yes	752	413	Yes

NBC_ACLC_PT-001683

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
1/23/2008	4.04	17.92	21.84	Yes	736	404	Yes
1/30/2008	4.55	17.36	20.72	Yes	786	455	Yes
2/6/2008	3.95	20.16	21.28	Yes	701	395	Yes
2/13/2008	4.38	20.72	19.6	Yes	716	438	Yes
2/20/2008	4.7	20.72	19.6	Yes	768	470	Yes
2/27/2008	4	20.16	19.6	Yes	654	400	Yes
3/5/2008	3.98	20.16	18.48	Yes	613	398	Yes
3/12/2008	3.93	22.50	21.84	Yes	716	393	Yes
3/19/2008	4.17	22.40	19.6	Yes	682	417	Yes
3/26/2008	4.1	19.04	17.92	Yes	613	410	Yes
4/2/2008	4.15	20.20	23.52	Yes	814	415	Yes
4/9/2008	3.86	25.20	24.08	Yes	775	386	Yes
4/16/2008	3.98	25.76	22.96	Yes	762	398	Yes
4/23/2008	4.1	29.12	25.76	Yes	881	410	Yes
4/30/2008	3.76	31.36	33.04	Yes	1036	376	Yes
5/7/2008	3.61	24.08	26.32	Yes	792	361	Yes
5/14/2008	3.72	25.20	28.32	Yes	879	372	Yes
5/21/2008	3.63	36.40	28.56	Yes	865	363	Yes
5/28/2008	3.77	30.80	37.52	Yes	1180	377	Yes
6/4/2008	3.66	28.00	42	Yes	1282	366	Yes
6/11/2008	3.73	20.72	17.92	Yes	557	373	Yes
6/18/2008	3.68	23.52	22.4	Yes	687	368	Yes
6/25/2008	3.72	29.60	3.92	No	122	372	No
7/2/2008	3.84	19.00	19.04	Yes	610	384	Yes
7/9/2008	3.26	19.60	15.68	Yes	426	326	Yes
7/16/2008	3.47	21.84	21.28	Yes	616	347	Yes
7/23/2008	3.53	N-Avail	20.16	Yes	594	353	Yes
7/24/2008	3.73	19.04	N-Avail	Yes	NA	373	Yes
7/28/2008	3.63	25.02	20.16	Yes	610	363	Yes
8/4/2008	3.97	22.96	17.92	Yes	593	397	Yes
8/11/2008	3.68	21.28	18.48	Yes	567	368	Yes
8/18/2008	3.25	20.16	16.8	Yes	455	325	Yes
8/25/2008	4.13	17.36	16.8	Yes	579	413	Yes
9/2/2008	4.13	19.00	17.36	Yes	598	413	Yes
9/8/2008	3.92	19.04	17.02	Yes	556	392	Yes

NBC_ACLC_PT-001684

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
9/15/2008	3.97	19.04	17.36	Yes	575	397	Yes
9/22/2008	3.73	22.40	15.68	Yes	488	373	Yes
9/29/2008	4.03	20.16	18.48	Yes	621	403	Yes
10/6/2008	3.3	15.12	14.56	Yes	401	330	Yes
10/13/2008	4	19.04	14.59	Yes	487	400	Yes
10/21/2008	3.86	21.28	19.6	Yes	631	386	Yes
10/27/2008	3.64	17.92	16.8	Yes	510	364	Yes
11/3/2008	3.73	20.16	18.48	Yes	575	373	Yes
11/10/2008	4.18	18.48	16.8	Yes	586	418	Yes
11/17/2008	3.75	15.12	14.56	Yes	455	375	Yes
11/24/2008	3.6	19.60	17.92	No[5]	538	NA	No
12/1/2008	3.68	17.92	15.68	No	481	NA	No
12/8/2008	3.89	19.60	21.84	No	709	NA	No
12/15/2008	3.73	17.92	21.84	No	679	NA	No
12/22/2008	3.93	21.28	19.6	No	642	NA	No
12/29/2008	3.72	20.16	19.04	No	591	NA	No
1/5/2009	3.81	20.16	19.04	No	605	NA	No
1/12/2009	3.94	15.68	22.9	No	752	NA	No
1/19/2009	4.1	20.16	19.04	No	651	NA	No
1/26/2009	3.82	28.00	24.08	No	767	NA	No
2/2/2009	3.92	20.16	28.56	No	934	NA	No
2/9/2009	4.14	17.92	24.08	No	831	NA	No
2/16/2009	3.76	31.36	21.28	No	667	NA	No
2/23/2009	3.99	19.60	20.72	No	689	NA	No
3/2/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
3/9/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
3/16/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
3/23/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
3/30/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
4/6/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
4/13/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
4/20/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No
4/27/2009	N-Avail	N-Avail	N-Avail	No	No	NA	No

[5] Effective 11/19/2008, Special Order R7-2008-0069 amends CDO R7-2008-008 and establishes Interim Effluent Limits for ammonia at 120 mg/L and 5900 Lbs/day.

NBC_ACLC_PT-001685

Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
5/4/2009	4.1	17.92	14	No	479	NA	No
5/11/2009	4	22.96	20.16	No	673	NA	No
5/18/2009	3.69	22.40	19.6	No	603	NA	No
5/25/2009	3.87	28.00	22.96	No	741	NA	No
6/1/2009	3.83	31.36	21.16	No	676	NA	No
6/8/2009	3.64	24.06	20.16	No	612	NA	No
6/15/2009	3.62	21.84	10.64	No	321	NA	No
6/22/2009	3.78	15.12	7.84	No	247	NA	No
6/29/2009	3.95	16.80	2.24	No	74	NA	No
7/6/2009	3.7	18.48	3.36	No	104	NA	No
7/13/2009	3.84	17.92	12.32	No	395	NA	No
7/20/2009	3.82	20.72	13.44	No	428	NA	No
7/27/2009	4.02	21.84	14.56	No	488	NA	No
8/3/2009	3.95	19.04	7.28	No	240	NA	No
8/10/2009	3.83	12.88	1.68	No	54	NA	No
8/17/2009	3.93	16.80	5.4	No	177	NA	No
8/24/2009	3.94	17.90	7.84	No	258	NA	No
8/31/2009	4.23	23.52	5.6	No	198	NA	No
9/7/2009	3.93	25.20	10.64	No	349	NA	No
9/14/2009	4.17	20.72	11.2	No	390	NA	No
9/21/2009	4	23.52	2.24	No	75	NA	No
9/28/2009	3.81	19.04	3.36	No	107	NA	No
10/5/2009	3.89	20.16	9.52	No	309	NA	No
10/12/2009	4.06	26.23	10.64	No	360	NA	No
10/19/2009	4.22	22.40	12.6	No	443	NA	No
10/26/2009	4.02	17.64	18.76	No	629	NA	No
11/2/2009	4	17.08	22.12	No	738	NA	No
11/9/2009	4.4	28.28	19.04	No	699	NA	No
11/16/2009	4.22	23.24	25.48	No	897	NA	No
11/23/2009	4.48	14.84	25.2	No	942	NA	No
11/30/2009	4.21	18.76	16.52	No	580	NA	No
12/7/2009	3.87	20.72	19.88	No	642	NA	No
12/14/2009	4.08	21.84	21	No	715	NA	No
12/21/2009	4.36	29.12	23.8	No	865	NA	No
12/28/2009	4.15	21.84	26.88	No	930	NA	No

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
1/4/2010	4.29	22.40	27.44	No	982	NA	No
1/11/2010	4.73	24.92	24.92	No	983	NA	No
1/18/2010	4.44	32.20	21	No	778	NA	No
1/25/2010	5.17	27.20	17.92	No	773	NA	No
2/1/2010	4.79	34.16	23.52	No	940	NA	No
2/8/2010	3.63	16.80	27.72	No	839	NA	No
2/15/2010	2.71	23.80	22.68	No	513	NA	No
2/22/2010	3.7	23.80	22.96	No	708	NA	No
3/2/2010	4.28	24.36	24.64	No	880	NA	No
3/8/2010	8.75	14.00	24.08	No	1757	NA	No
3/15/2010	4.4	19.60	22.12	No	812	NA	No
3/22/2010	3.46	26.88	23.8	No	687	NA	No
3/29/2010	3.67	28.28	24.64	No	754	NA	No
4/5/2010	3.4	35.28	27.72	No	786	NA	No
4/12/2010	3.8	29.96	29.96	No	949	NA	No
4/19/2010	3.8	31.92	29.12	No	923	NA	No
4/26/2010	4.1	34.16	32.48	No	1111	NA	No
5/3/2010	4	32.48	32.76	No	1093	NA	No
5/10/2010	3.6	36.40	N-Avail	No	N-Avail	NA	No
5/17/2010	3.8	39.48	33.32	No	1056	NA	No
5/24/2010	3.7	36.40	34.44	No[6]	1063	NA	No
5/31/2010	3.8	33.88	35.86	No	1136	NA	No
6/7/2010	N-Avail	N-Avail	N-Avail	No	No	NA	No
6/14/2010	N-Avail	N-Avail	N-Avail	No	No	NA	No
6/21/2010	N-Avail	N-Avail	N-Avail	No	No	NA	No
6/28/2010	N-Avail	N-Avail	N-Avail	No	No	NA	No
7/5/2010	3.6	26.32	47.6	No	1429	NA	No
7/12/2010	3.6	36.40	36.4	No	1093	NA	No
7/19/2010	3.6	32.76	31.08	No	933	NA	No
7/26/2010	3.4	24.36	26.88	No	762	NA	No
8/2/2010	3.3	21.84	22.84	No	629	NA	No
8/9/2010	2.8	20.16	22.4	No	523	NA	No
8/16/2010	3.4	17.36	23.52	No	667	NA	No

[6] WDRs R7-2010-0022 becomes effective on 5/20/2010. For the City New WWTP, it establishes Ammonia limits of Max. Daily of 3.2 mg/L and 157 lbs/day @ 5.9 mgd.

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
8/23/2010	3.2	23.52	12.88	No	344	NA	No
8/30/2010	3.2	25.76	10.08	No	269	NA	No
9/6/2010	3.6	21.84	10.08	No	303	NA	No
9/13/2010	3.6	20.16	7.84	No	235	NA	No
9/20/2010	3.3	17.36	8.96	No	247	NA	No
9/27/2010	3.2	23.52	16.24	No	433	NA	No
10/4/2010	3.8	24.64	15.68	No	497	NA	No
10/11/2010	3.6	22.40	19.04	No	572	NA	No
10/18/2010	3.4	21.84	25.2	No	715	NA	No
10/25/2010	3.6	22.10	22.4	No	673	NA	No
11/1/2010	3.5	23.52	24.67	No	720	NA	No
11/8/2010	3.4	20.72	22.96	No	651	NA	No
11/15/2010	3.6	22.40	24.08	No	723	NA	No
11/22/2010	3.5	22.96	23.52	No	687	NA	No
11/29/2010	3.7	21.84	22.96	No	708	NA	No
12/6/2010	3.7	21.84	19.6	No	605	NA	No
12/13/2010	3.7	27.44	20.72	No	639	NA	No
12/20/2010	3.7	50.40	31.92	No	985	NA	No
12/27/2010	3.5	36.40	35.28	No	1030	NA	No
1/3/2011	3.3	27.00	30	No	826	NA	No
1/10/2011	3.5	25.00	25	No	730	NA	No
1/17/2011	3.6	31.00	25	No	751	NA	No
1/24/2011	3.6	40.00	33.6	No	1009	NA	No
1/31/2011	3.5	34.00	28	No	817	NA	No
2/7/2011	3.9	28.00	25.2	No	820	NA	No
2/14/2011	3.8	45.36	30.8	No	976	NA	No
2/21/2011	3.8	40.88	31.36	No	994	NA	No
2/28/2011	3.2	36.16	28	No	747	NA	No
3/3/2011	3.8	25.70	N-Avail	No	N-Avail	NA	No
3/5/2011	3.9	N-Avail	33.4	No	1086	NA	No
3/7/2011	3.4	33.60	N/A	No	N-Avail	NA	No
3/12/2011	4	N-Avail	30.8	No	1027	NA	No
3/14/2011	3.4	35.30	N/A	No	N-Avail	NA	No
3/19/2011	3.4	N-Avail	33.6	No	953	NA	No
3/21/2011	2.8	26.80	N-Avail	No	NA	NA	No

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
3/26/2011	4.8	N-Avail	39.7	No	1589	NA	No
3/28/2011	3.1	38.60	N-Avail	No	N-Avail	NA	No
3/31/2011	3.1	N-Avail	50.4	No	1303	NA	No
4/4/2011	2.9	47.60	40.3	No	975	NA	No
4/11/2011	3.2	43.70	52.6	No	1404	NA	No
4/18/2011	2.7	36.40	52.6	No	1184	NA	No
4/25/2011	2.5	47.60	50.4	No	1051	NA	No
5/2/2011	3.5	37.50	53.75	No	1569	NA	No
5/9/2011	2.7	47.00	51.52	No	1160	NA	No
5/16/2011	2.8	26.80	24.64	No	575	NA	No
5/23/2011	3.2	27.44	40.88	No	1091	NA	No
5/30/2011	2.6	50.40	36.96	No	801	NA	No
6/6/2011	2.6	23.50	34.7	No	752	NA	No
6/13/2011	3.2	44.20	37	No	987	NA	No
6/20/2011	2.6	44.20	41.4	No	898	NA	No
6/27/2011	2.7	28.00	30.8	No	694	NA	No
7/6/2011	2.3	32.48	29.68	No	569	NA	No
7/11/2011	3	27.44	28.56	No	715	NA	No
7/18/2011	3.3	28.00	8.4	No	231	NA	No
7/25/2011	3.6	21.80	7.3	No	219	NA	No
8/1/2011	3.1	31.36	1.68	No	43	NA	No
8/8/2011	3.3	29.68	1.12	No	31	NA	No
8/15/2011	2.9	32.48	1.12	No	27	NA	No
8/22/2011	3.6	36.40	1.12	No	34	NA	No
8/29/2011	3.2	35.28	0.56	No	15	NA	No
9/5/2011	3.7	31.36	3.92	No	121	NA	No
9/12/2011	3.9	35.28	1.12	No	36	NA	No
9/19/2011	3.2	32.48	0.56	No	15	NA	No
9/26/2011	2.7	42.56	3.36	No	76	NA	No
10/3/2011	3.3	30.80	1.12	No	31	NA	No
10/10/2011	3.5	16.80	1.12	No	33	NA	No
10/17/2011	2.7	17.92	0.56	No	13	NA	No
10/24/2011	3.7	21.28	0.56	No	17	NA	No
11/2/2011	4.1	23.52	1.12	No	38	NA	No
11/7/2011	2.7	17.36	1.12	No	25	NA	No

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
11/14/2011	3.6	33.60	0.56	No	17	NA	No
11/21/2011	3.8	27.44	0.56	No	18	NA	No
11/28/2011	3.4	19.04	0.56	No	16	NA	No
12/5/2011	4.9	19.04	0.56	No	23	NA	No
12/14/2011	3.9	30.80	1.68	No	55	NA	No
12/19/2011	3.6	31.36	6.16	No	185	NA	No
12/27/2011	4	26.32	1.12	No	37	NA	No
1/3/2012	3.8	25.20	3.92	No	124	NA	No
1/9/2012	3.7	40.88	0.56	No	17	NA	No
1/18/2012	3.6	31.92	2.24	No	67	NA	No
1/23/2012	3.4	33.04	1.12	No	32	NA	No
1/30/2012	4.1	35.28	0.56	No	19	NA	No
2/1/2012	2.8	40.88	0.56	No	13	NA	No
2/6/2012	4.2	29.12	1.12	No	39	NA	No
2/13/2012	4.3	36.40	0.56	No	20	NA	No
2/21/2012	2.7	8.96	0.56	No	13	NA	No
2/27/2012	2.8	30.80	0.56	No	13	NA	No
3/5/2012	3.2	29.12	0.56	No	15	85	No
3/12/2012	3.2	30.80	0.56	No	15	85	No
3/19/2012	3.2	28.00	1.12	No	30	85	No
3/26/2012	3.1	35.84	1.12	No	29	83	No
4/2/2012	2.6	29.12	1.12	No	24	69	No
4/9/2012	3	27.44	1.12	No	28	80	No
4/16/2012	2.7	21.84	1.68	No	38	72	No
4/23/2012	3.9	24.64	0.56	No	18	104	No
5/2/2012	3.9	39.76	1.68	No	55	104	No
5/7/2012	3.5	26.32	0.56	No	16	93	No
5/14/2012	3.1	31.36	1.12	No	29	83	No
5/21/2012	3.8	33.60	1.12	No	35	101	No
5/30/2012	4	20.16	1.68	No	56	107	No
6/6/2012	4	64.40	8.40	Yes	280	107	Yes
6/13/2012	2.7	38.08	1.12	No	25	72	No
6/18/2012	2.9	45.92	1.68	No	41	77	No
6/25/2012	2.5	34.16	0.56	No	12	67	No
7/2/2012	3.9	24.08	1.68	No	55	104	No

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Table 2 - Daily Ammonia Load Discharged by Brawley WWTP into New River[1]							
Date	Flow (mgd)	**Influent** Ammonia (mg/L)	**Effluent** Ammonia (mg/L)	Violation of Max. Daily Concentration NPDES Permit Limit?	Ammonia Load Discharged (lbs/day)	Flow-Weighted Max. Daily Load NPDES Permit Limit	Violation of Max. Daily Load Limit of NPDES Permit?
7/9/2012	3.7	26.88	0.56	No	17	99	No
7/16/2012	3.1	49.84	0.56	No	14	83	No
7/23/2012	3.8	44.24	1.12	No	35	101	No
7/30/2012	3.5	46.48	0.56	No	16	93	No
8/6/2012	3.4	50.40	1.12	No	32	91	No
8/13/2012	2.6	44.24	0.56	No	12	69	No
8/20/2012	2.9	29.12	0.56	No	14	77	No
8/27/2012	2.4	28.56	0.56	No	11	64	No
9/5/2012	4.3	21.84	0.56	No	20	115	No
9/12/2012	4.2	25.20	0.56	No	20	112	No
9/19/2012	4.2	42.56	0.56	No	20	112	No
9/26/2012	4.1	40.32	0.56	No	19	109	No
10/3/2012	4.2	22.40	0.56	No	20	112	No
10/10/2012	3.6	20.16	0.56	No	17	96	No
10/17/2012	3.8	13.44	1.68	No	53	101	No
10/24/2012	4	20.16	0.56	No	19	107	No
10/31/2012	4.1	19.04	1.12	No	38	109	No
11/7/2012	3.4	17.92	1.12	No	32	91	No
11/14/2012	3.8	24.08	0.56	No	18	101	No
11/21/2012	4.1	31.36	1.68	No	57	109	No
11/28/2012	3.8	22.40	0.56	No	18	101	No
12/5/2012	4.2	35.28	0.56	No	20	112	No
12/12/2012	4.2	20.72	1.2	No	42	112	No
12/19/2012	4.3	12.32	0.56	No	20	115	No
12/26/2012	3.5	19.60	0.56	No	16	93	No

NBC_ACLC_PT-001691

Table 3 - Average Monthly Ammonia Load Discharged by Brawley WWTP into New River[1]						
Month, Year	Flow (mgd)	Effluent Ammonia Concentration (mg/L as N)	Violation of NPDES Limit?	Ammonia Load (lbs/day)	Flow-weighted Limit (lbs/day)	Violation of NPDES Limit?
May 2001	3.10	19.30	NA[2]	499	NA	NA
Jun 2001	3.04	14.90	NA	378	NA	NA
Jul 2001	3.02	12.20	NA	307	NA	NA
Aug 2001	3.20	7.30	NA	195	NA	NA
Sep 2001	3.30	12.20	NA	336	NA	NA
Oct 2001	3.24	11.80	NA	319	NA	NA
Nov 2001	3.08	15.80	NA	406	NA	NA
Dec 2001	3.12	19.60	NA	510	NA	NA
Jan 2002	3.19	20.60	NA	548	NA	NA
Feb 2002	2.73	20.80	NA	474	NA	NA
Mar 2002	2.66	33.80	NA	750	NA	NA
Apr 2002	2.66	26.40	NA	586	NA	NA
May 2002	2.65	40.00	NA	884	NA	NA
Jun 2002	2.66	36.20	NA	803	NA	NA
Jul 2002	3.81	34.10	NA	1084	NA	NA
Aug 2002	3.56	33.60	NA	998	NA	NA
Sep 2002	3.55	26.80	NA	793	NA	NA
Oct 2002	2.96	30.00	NA	741	NA	NA
Nov 2002	3.49	35.00	NA	1019	NA	NA
Dec 2002	3.24	28.30	NA	765	NA	NA
Jan 2003	3.16	45.00	NA	1186	NA	NA
Feb 2003	3.22	30.00	NA	806	NA	NA
Mar 2003	3.24	41.10	NA	1111	NA	NA
Apr 2003	3.34	45.40	NA	1265	NA	NA
May 2003	3.57	35.00	NA	1042	NA	NA
Jun 2003	3.42	35.00	NA	998	NA	NA
Jul 2003	3.46	33.50	NA	967	NA	NA
Aug 2003	3.85	22.40	NA	719	NA	NA
Sep 2003	3.41	25.00	NA	711	NA	NA
Oct 2003	3.23	19.18	NA	517	NA	NA
Nov 2003	3.10	1.40	NA	36	NA	NA

[1] Data on this table is based on Self-monitoring reports (SMRs) submitted by the City of Brawley to the Colorado River Basin Water Board.

[2] Not Applicable. WDRs Order No. 00-0087 in effect from 6/28/2000 through 6/28/2005. It does not establish ammonia effluent limits.

NBC_ACLC_PT-001692

Table 3 - Average Monthly Ammonia Load Discharged by Brawley WWTP into New River[1]						
Month, Year	Flow (mgd)	Effluent Ammonia Concentration (mg/L as N)	Violation of NPDES Limit?	Ammonia Load (lbs/day)	Flow-weighted Limit (lbs/day)	Violation of NPDES Limit?
Dec 2003	3.06	24.10	NA	615	NA	NA
Jan 2004	3.41	27.40	NA	779	NA	NA
Feb 2004	3.60	27.00	NA	811	NA	NA
Mar 2004	3.42	24.40	NA	696	NA	NA
Apr 2004	3.44	21.28	NA	611	NA	NA
May 2004	3.40	1.68	NA	48	NA	NA
Jun 2004	3.49	2.24	NA	65	NA	NA
Jul 2004	3.58	1.96	NA	59	NA	NA
Aug 2004	3.55	1.40	NA	41	NA	NA
Sep 2004	3.78	1.96	NA	62	NA	NA
Oct 2004	3.82	0.84	NA	27	NA	NA
Nov 2004	3.40	1.68	NA	48	NA	NA
Dec 2004	3.75	26.32	NA	823	NA	NA
Jan 2005	3.72	34.20	NA	1061	NA	NA
Feb 2005	3.63	27.16	NA	822	NA	NA
Mar 2005	3.28	29.10	NA	796	NA	NA
Apr 2005	3.31	30.80	NA	850	NA	NA
May 2005	3.34	20.44	NA	569	NA	NA
Jun 2005	3.40	11.20	No	318	NA	NA
Jul 2005	3.46	19.04	No[3]	549	NA	No
Aug 2005	3.67	18.48	No	566	NA	No
Sep 2005	3.48	17.36	No	504	NA	No
Oct 2005	3.66	19.74	No	603	NA	No
Nov 2005	3.53	16.69	No	491	NA	No
Dec 2005	3.78	27.86	No	878	NA	No
Jan 2006	3.66	26.46	No	808	NA	No
Feb 2006	3.59	30.10	No	901	NA	No
Mar 2006	4.02	27.88	No	935	NA	No
Apr 2006	3.00	31.64	No	792	NA	No
May 2006	3.59	31.25	No	936	NA	No
Jun 2006	3.74	29.06	No	906	NA	No
Jul 2006	3.80	35.14	No	1114	NA	No
Aug 2006	3.84	26.16	No	838	NA	No
Sep 2006	3.76	29.21	No	916	NA	No

[3] WDRs Order R7-2005-0021 is adopted on 6/29/2005. From 6/29/2005 through Jan 2007, no Ammonia Limits. Effective 2/1/2007, WDRs R7-2005-0021 set Max. Daily Limits for NH3 at 12 mg/L and 590 lb/day @ 5.9 mgd.

Table 3 - Average Monthly Ammonia Load Discharged by Brawley WWTP into New River[1]						
Month, Year	Flow (mgd)	Effluent Ammonia Concentration (mg/L as N)	Violation of NPDES Limit?	Ammonia Load (lbs/day)	Flow-weighted Limit (lbs/day)	Violation of NPDES Limit?
Oct 2006	3.64	24.64	No	748	NA	No
Nov 2006	3.85	30.34	No	974	NA	No
Dec 2006	3.91	37.38	No	1219	NA	No
Jan 2007	3.92	42.12	No	1377	NA	No
Feb 2007	4.00	50.82	Yes[4]	1695	37	Yes
Mar 2007	3.92	18.62	Yes	609	36	Yes
Apr 2007	3.71	22.26	Yes	689	34	Yes
May 2007	3.69	31.81	Yes	979	34	Yes
Jun 2007	3.75	33.60	Yes	1051	34	Yes
Jul 2007	3.78	31.78	Yes	1002	35	Yes
Aug 2007	3.78	31.36	Yes	989	35	Yes
Sep 2007	3.79	28.00	Yes	885	35	Yes
Oct 2007	3.79	20.27	Yes	641	35	Yes
Nov 2007	4.07	20.30	Yes	689	37	Yes
Dec 2007	4.25	18.76	Yes	665	39	Yes
Jan 2008	4.27	21.06	Yes	750	39	Yes
Feb 2008	4.30	20.02	Yes	718	39	Yes
Mar 2008	4.11	19.46	Yes	667	38	Yes
Apr 2008	3.00	25.87	Yes	647	28	Yes
May 2008	3.93	30.18	Yes	989	36	Yes
Jun 2008	3.89	21.56	Yes	699	36	Yes
Jul 2008	3.80	19.26	Yes	610	35	Yes
Aug 2008	3.97	17.50	Yes	579	36	Yes
Sep 2008	3.93	17.36	Yes	569	36	Yes
Oct 2008	3.79	16.39	Yes	518	35	Yes
Nov 2008	3.93	16.94	Yes[5]	555	36	Yes
Dec 2008	3.89	19.60	No	636	NA	No
Jan 2009	4.02	21.28	No	713	NA	No
Feb 2009	3.97	23.66	No	783	NA	No
Mar 2009	NA	NA	No	NA	NA	No
Apr 2009	NA	NA	No	NA	NA	No
May 2009	4.15	19.18	No	664	NA	No
Jun 2009	4.05	12.21	No	412	NA	No

[4] Effective 2/1/2007, WDRs R7-2005-0021 set Max. Daily Limits for NH3 at 12 mg/L and 590 lb/day @ 5.9 mgd.
[5] Effective 11/19/2008, Special Order R7-2008-0069 amends CDO R7-2008-008 and establishes Interim Effluent Limits for ammonia at 120 mg/L and 5900 Lbs/day.

NBC_ACLC_PT-001694

Table 3 - Average Monthly Ammonia Load Discharged by Brawley WWTP into New River[1]						
Month, Year	Flow (mgd)	Effluent Ammonia Concentration (mg/L as N)	Violation of NPDES Limit?	Ammonia Load (lbs/day)	Flow-weighted Limit (lbs/day)	Violation of NPDES Limit?
Jul 2009	4.02	10.92	No	366	NA	No
Aug 2009	4.04	5.56	No	187	NA	No
Sep 2009	4.06	6.86	No	232	NA	No
Oct 2009	3.64	12.88	No	391	NA	No
Nov 2009	3.64	21.67	No	658	NA	No
Dec 2009	4.50	22.89	No	859	NA	No
Jan 2010	4.50	22.82	No	856	NA	No
Feb 2010	4.50	24.22	No	909	NA	No
Mar 2010	4.50	23.86	No	895	NA	No
Apr 2010	3.80	29.82	No	945	NA	No
May 2010	3.80	34.02	No	1078	NA	No
Jun 2010	NA	NA	No[6]	NA	NA	No
Jul 2010	3.77	35.49	No	1117	NA	No
Aug 2010	3.56	18.34	No	545	NA	No
Sep 2010	3.56	10.78	No	320	NA	No
Oct 2010	3.72	20.58	No	639	NA	No
Nov 2010	3.63	23.64	No	715	NA	No
Dec 2010	3.80	26.88	No	853	NA	No
Jan 2011	3.71	28.32	No	876	NA	No
Feb 2011	3.94	28.84	No	947	NA	No
Mar 2011	3.50	37.58	No	1096	NA	No
Apr 2011	3.63	48.98	No	1481	NA	No
May 2011	3.53	41.55	No	1222	NA	No
Jun 2011	3.58	35.98	No	1075	NA	No
Jul 2011	3.40	18.49	No	525	NA	No
Aug 2011	3.62	1.12	No	34	NA	No
Sep 2011	3.76	2.24	No	70	NA	No
Oct 2011	3.65	0.84	No	26	NA	No
Nov 2011	3.94	0.78	No	26	NA	No
Dec 2011	4.06	2.38	No	81	NA	No
Jan 2012	3.92	1.68	No	55	NA	No
Feb 2012	3.93	0.67	No	22	NA	No
Mar 2012	3.99	0.84	No	28	70	No
Apr 2012	3.80	1.12	No	36	67	No

[6] WDRs R7-2010-0022 becomes effective on 5/20/2010. For the City New WWTP, it establishes Ammonia limits of Max. Daily of 3.2 mg/L and 157 lbs/day @ 5.9 mgd.

NBC_ACLC_PT-001695

Table 3 - Average Monthly Ammonia Load Discharged by Brawley WWTP into New River[1]						
Month, Year	Flow (mgd)	Effluent Ammonia Concentration (mg/L as N)	Violation of NPDES Limit?	Ammonia Load (lbs/day)	Flow-weighted Limit (lbs/day)	Violation of NPDES Limit?
May 2012	3.79	1.23	No	39	66	No
Jun 2012	3.77	2.94	No	92	66	No
Jul 2012	3.77	0.90	No	28	66	No
Aug 2012	3.69	0.70	No	22	65	No
Sep 2012	3.77	0.56	No	18	66	No
Oct 2012	3.66	0.90	No	27	64	No
Nov 2012	3.85	0.98	No	31	67	No
Dec 2012	3.90	0.84	No	27	68	No

NBC_ACLC_PT-001696

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
2001	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail
Jan-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	68.00	N-Avail
Feb-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	74.50	N-Avail
Mar-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	104.00	N-Avail
Apr-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	148.00	N-Avail
May-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	99.30	N-Avail
Jun-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	61.10	N-Avail
Jul-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	121.00	N-Avail
Aug-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	74.10	N-Avail
Sep-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail
Oct-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	100.00	N-Avail
Nov-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	90.00	N-Avail
Dec-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	90.00	N-Avail
Jan-2003	2	N-Avail	N-Avail	100.00	N-Avail	93.33	N-Avail
	9	N-Avail	N-Avail	90.00	N-Avail		N-Avail
	16	N-Avail	N-Avail	90.00	N-Avail		N-Avail
Feb-2003	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail
Mar-2003	12	N-Avail	N-Avail	100.00	N-Avail	95.00	N-Avail
	20	N-Avail	N-Avail	90.00	N-Avail		N-Avail
	26	N-Avail	N-Avail	95.00	N-Avail		N-Avail
Apr-2003	9	N-Avail	N-Avail	42.00	N-Avail	43.95	N-Avail
	16	N-Avail	N-Avail	53.80	N-Avail		N-Avail
	23	N-Avail	N-Avail	40.00	N-Avail		N-Avail
	30	N-Avail	N-Avail	40.00	N-Avail		N-Avail
May-2003	7	N-Avail	N-Avail	50.00	N-Avail	37.50	N-Avail
	14	N-Avail	N-Avail	30.00	N-Avail		N-Avail
	21	N-Avail	N-Avail	30.00	N-Avail		N-Avail
	28	N-Avail	N-Avail	40.00	N-Avail		N-Avail
Jun-2003	4	N-Avail	N-Avail	80.00	N-Avail	65.78	N-Avail
	11	N-Avail	N-Avail	100.00	N-Avail		N-Avail
	18	N-Avail	N-Avail	23.10	N-Avail		N-Avail
	25	N-Avail	N-Avail	60.00	N-Avail		N-Avail
Jul-2003	2	N-Avail	N-Avail	65.40	N-Avail	49.98	N-Avail
	9	N-Avail	N-Avail	64.20	N-Avail		N-Avail
	16	N-Avail	N-Avail	24.00	N-Avail		N-Avail
	30	N-Avail	N-Avail	46.30	N-Avail		N-Avail

[1] Based on City of Brawley water quality and flow monitoring data for the slaughterhouse.

NBC_ACLC_PT-001697

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Aug-2003	6	N-Avail	N-Avail	47.00	N-Avail	43.05	N-Avail
	13	N-Avail	N-Avail	28.60	N-Avail		N-Avail
	20	N-Avail	N-Avail	28.00	N-Avail		N-Avail
	27	N-Avail	N-Avail	68.60	N-Avail		N-Avail
Sep-2003	3	N-Avail	N-Avail	61.04	N-Avail	39.06	N-Avail
	10	N-Avail	N-Avail	38.08	N-Avail		N-Avail
	17	N-Avail	N-Avail	29.96	N-Avail		N-Avail
	24	N-Avail	N-Avail	27.16	N-Avail		N-Avail
Oct-2003	1	N-Avail	N-Avail	30.80	N-Avail	31.42	N-Avail
	8	N-Avail	N-Avail	32.48	N-Avail		N-Avail
	15	N-Avail	N-Avail	26.04	N-Avail		N-Avail
	22	N-Avail	N-Avail	33.60	N-Avail		N-Avail
	29	N-Avail	N-Avail	34.16	N-Avail		N-Avail
Nov-2003	5	N-Avail	437,800	38.64	N-Avail	35.84	131
	11	N-Avail		22.40	N-Avail		
	19	N-Avail		39.76	N-Avail		
	26	N-Avail		42.56	N-Avail		
Dec-2003	3	N-Avail	414,677	36.40	N-Avail	38.23	132
	9	N-Avail		35.84	N-Avail		
	17	N-Avail		44.80	N-Avail		
	23	N-Avail		28.56	N-Avail		
	30	N-Avail		45.56	N-Avail		
Jan-2004	7	N-Avail	368,612	48.72	N-Avail	47.60	146
	13	N-Avail		54.88	N-Avail		
	20	N-Avail		53.76	N-Avail		
	28	N-Avail		33.04	N-Avail		
Feb-2004	4	N-Avail	450,321	42.00	N-Avail	40.18	151
	11	N-Avail		41.44	N-Avail		
	18	N-Avail		40.88	N-Avail		
	25	N-Avail		36.40	N-Avail		
Mar-2004	2	N-Avail	424,580	39.76	N-Avail	35.14	124
	16	N-Avail		35.84	N-Avail		
	24	N-Avail		30.24	N-Avail		
	31	N-Avail		34.72	N-Avail		
Apr-2004	7	N-Avail	413,233	28.56	N-Avail	26.18	90
	14	N-Avail		24.08	N-Avail		
	21	N-Avail		28.56	N-Avail		
	28	N-Avail		23.52	N-Avail		

NBC_ACLC_PT-001698

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
May-2004	4	N-Avail	480,419	22.40	N-Avail	20.02	80
	12	N-Avail		17.36	N-Avail		
	19	N-Avail		20.16	N-Avail		
	26	N-Avail		20.16	N-Avail		
Jun-2004	9	N-Avail	464,300	30.24	N-Avail	17.92	69
	16	N-Avail		29.12	N-Avail		
	23	N-Avail		3.36	N-Avail		
	30	N-Avail		8.96	N-Avail		
Jul-2004	7	N-Avail	492,419	25.20	N-Avail	17.64	72
	14	N-Avail		16.80	N-Avail		
	20	N-Avail		14.56	N-Avail		
	27	N-Avail		14.00	N-Avail		
Aug-2004	4	N-Avail	433,774	9.52	N-Avail	16.24	59
	11	N-Avail		9.52	N-Avail		
	18	N-Avail		15.68	N-Avail		
	25	N-Avail		30.24	N-Avail		
Sep-2004	1	N-Avail	537,033	43.12	N-Avail	48.27	216
	8	N-Avail		40.32	N-Avail		
	15	N-Avail		50.96	N-Avail		
	22	N-Avail		86.80	N-Avail		
	29	N-Avail		20.16	N-Avail		
Oct-2004	6	N-Avail	522,193	49.28	N-Avail	28.98	126
	12	N-Avail		29.68	N-Avail		
	20	N-Avail		14.56	N-Avail		
	27	N-Avail		22.40	N-Avail		
Nov-2004	3	N-Avail	526,100	39.96	N-Avail	50.73	222.59
	11	N-Avail		45.36	N-Avail		
	17	N-Avail		57.68	N-Avail		
	24	N-Avail		59.92	N-Avail		
Dec-2004	1	N-Avail	436,677	56.00	N-Avail	76.98	280.34
	8	N-Avail		80.80	N-Avail		
	15	N-Avail		79.52	N-Avail		
	22	N-Avail		85.12	N-Avail		
	29	N-Avail		83.44	N-Avail		
Jan-2005	6	N-Avail	407,258	75.04	N-Avail	92.96	315.74
	12	N-Avail		82.32	N-Avail		
	19	N-Avail		72.80	N-Avail		
	26	N-Avail		141.68	N-Avail		

NBC_ACLC_PT-001699

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Feb-2005	2	N-Avail	497,892	63.84	N-Avail	88.68	368.25
	9	N-Avail		145.09	N-Avail		
	16	N-Avail		57.12	N-Avail		
	23	N-Avail		No Reading	N-Avail		
Mar-2005	2	N-Avail	430,967	47.60	N-Avail	55.78	200
	9	N-Avail		40.32	N-Avail		
	16	N-Avail		53.20	N-Avail		
	23	N-Avail		69.44	N-Avail		
	30	N-Avail		68.32	N-Avail		
Apr-2005	6	N-Avail	364,766	53.20	N-Avail	44.52	135.44
	13	N-Avail		43.68	N-Avail		
	20	N-Avail		40.32	N-Avail		
	27	N-Avail		40.88	N-Avail		
May-2005	4	N-Avail	451,838	31.92	N-Avail	28.00	105.51
	11	N-Avail		31.36	N-Avail		
	18	N-Avail		24.08	N-Avail		
	25	N-Avail		24.64	N-Avail		
Jun-2005	1	N-Avail	480,066	25.76	N-Avail	45.12	181
	8	N-Avail		38.64	N-Avail		
	15	N-Avail		109.76	N-Avail		
	22	N-Avail		24.64	N-Avail		
	29	N-Avail		26.80	N-Avail		
Jul-2005	6	N-Avail	490,967	19.04	N-Avail	16.66	68.22
	13	N-Avail		21.28	N-Avail		
	20	N-Avail		12.88	N-Avail		
	27	N-Avail		13.44	N-Avail		
Aug-2005	3	N-Avail	489,645	16.24	N-Avail	15.57	64
	10	N-Avail		16.80	N-Avail		
	17	N-Avail		19.60	N-Avail		
	24	N-Avail		14.56	N-Avail		
	31	N-Avail		10.64	N-Avail		
Sep-2005	7	N-Avail	454,900	10.64	N-Avail	13.72	52.05
	14	N-Avail		19.04	N-Avail		
	21	N-Avail		14.56	N-Avail		
	28	N-Avail		10.64	N-Avail		
Oct-2005	4	N-Avail	431,580	9.52	N-Avail	10.64	38
	12	N-Avail		10.08	N-Avail		
	26	N-Avail		12.32	N-Avail		

NBC_ACLC_PT-001700

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Nov-2005	2	N-Avail	359,000	20.16	N-Avail	25.48	76.29
	9	N-Avail		20.16	N-Avail		
	16	N-Avail		22.96	N-Avail		
	30	N-Avail		38.64	N-Avail		
Dec-2005	6	N-Avail	459,709	53.76	N-Avail	57.96	222.22
	14	N-Avail		67.76	N-Avail		
	21	N-Avail		63.84	N-Avail		
	28	N-Avail		46.48	N-Avail		
Jan-2006	4	N-Avail	521,225	34.16	N-Avail	35.28	153.36
	11	N-Avail		28.00	N-Avail		
	17	N-Avail		35.28	N-Avail		
	24	N-Avail		43.68	N-Avail		
Feb-2006	1	N-Avail	539,107	51.52	N-Avail	48.16	217
	8	N-Avail		52.64	N-Avail		
	22	N-Avail		40.32	N-Avail		
Mar-2006	1	N-Avail	529,290	35.84	N-Avail	40.74	179.84
	8	N-Avail		39.76	N-Avail		
	22	N-Avail		41.44	N-Avail		
	28	N-Avail		45.92	N-Avail		
Apr-2006	4	N-Avail	575,033	38.64	N-Avail	32.50	155.86
	12	N-Avail		34.72	N-Avail		
	19	N-Avail		35.84	N-Avail		
	26	N-Avail		20.80	N-Avail		
May-2006	3	N-Avail	497,032	32.48	N-Avail	31.51	131
	10	N-Avail		31.26	N-Avail		
	17	N-Avail		30.80	N-Avail		
Jun-2006	1	N-Avail	591,833	31.92	N-Avail	36.51	180.21
	7	N-Avail		25.20	N-Avail		
	14	N-Avail		31.92	N-Avail		
	28	N-Avail		57.00	N-Avail		
Jul-2006	5	N-Avail	609,903	67.76	N-Avail	51.66	262.77
	12	N-Avail		38.08	N-Avail		
	19	N-Avail		47.60	N-Avail		
	26	N-Avail		53.20	N-Avail		
Aug-2006	2	N-Avail	624,129	45.36	N-Avail	37.32	194
	9	N-Avail		26.64	N-Avail		
	15	N-Avail		36.96	N-Avail		
	23	N-Avail		40.32	N-Avail		

NBC_ACLC_PT-001701

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	30	N-Avail		27.50	N-Avail		
Sep-2006	20	N-Avail	732,466	45.92	N-Avail	47.88	
	27	N-Avail		49.84	N-Avail		
Oct-2006	4	N-Avail	554,645	27.44	N-Avail	27.58	127.58
	11	N-Avail		28.56	N-Avail		
	17	N-Avail		26.88	N-Avail		
	24	N-Avail		27.44	N-Avail		
Nov-2006	1	N-Avail	600,866	33.04	N-Avail	46.76	234
	7	N-Avail		34.16	N-Avail		
	13	N-Avail		52.64	N-Avail		
	21	N-Avail		67.20	N-Avail		
	29	N-Avail		56.00	N-Avail		
Dec-2006	5	N-Avail	522,741	84.00	N-Avail	88.90	387.57
	12	N-Avail		92.96	N-Avail		
	20	N-Avail		85.12	N-Avail		
	27	N-Avail		93.52	N-Avail		
Jan-2007	3	N-Avail	691,032	89.04	N-Avail	106.74	615
	10	N-Avail		94.08	N-Avail		
	17	N-Avail		90.72	N-Avail		
	23	N-Avail		129.92	N-Avail		
	31	N-Avail		129.92	N-Avail		
Feb-2007	6	N-Avail	724,464	107.52	N-Avail	77.28	466.93
	13	N-Avail		73.92	N-Avail		
	20	N-Avail		59.36	N-Avail		
	27	N-Avail		68.32	N-Avail		
Mar-2007	7	N-Avail	675,967	12.60	N-Avail	23.17	130.62
	13	N-Avail		37.52	N-Avail		
	21	N-Avail		20.72	N-Avail		
	27	N-Avail		21.84	N-Avail		
Apr-2007	4	N-Avail	644,000	44.24	N-Avail	44.38	238.36
	11	N-Avail		37.52	N-Avail		
	17	N-Avail		46.48	N-Avail		
	25	N-Avail		49.28	N-Avail		
May-2007	2	N-Avail	688,709	38.64	N-Avail	44.02	253
	9	N-Avail		47.60	N-Avail		
	15	N-Avail		44.80	N-Avail		
	22	N-Avail		45.92	N-Avail		
	30	N-Avail		43.12	N-Avail		

NBC_ACLC_PT-001702

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Jun-2007	6	N-Avail	643,709	49.84	N-Avail	49.28	264.56
	13	N-Avail		47.04	N-Avail		
	20	N-Avail		49.28	N-Avail		
	27	N-Avail		50.96	N-Avail		
Jul-2007	3	N-Avail	664,193	54.32	N-Avail	53.62	297.02
	10	N-Avail		51.52	N-Avail		
	18	N-Avail		53.20	N-Avail		
	25	N-Avail		55.44	N-Avail		
Aug-2007	1	N-Avail	665,967	61.04	N-Avail	55.33	307
	8	N-Avail		72.24	N-Avail		
	14	N-Avail		49.84	N-Avail		
	23	N-Avail		44.80	N-Avail		
	28	N-Avail		48.72	N-Avail		
Sep-2007	5	N-Avail	666,666	45.92	N-Avail	41.25	229.36
	12	N-Avail		40.32	N-Avail		
	19	N-Avail		33.92	N-Avail		
	25	N-Avail		44.85	N-Avail		
Oct-2007	2	N-Avail	546,774	41.44	N-Avail	26.43	121
	10	N-Avail		26.88	N-Avail		
	16	N-Avail		19.04	N-Avail		
	24	N-Avail		22.40	N-Avail		
	31	N-Avail		22.40	N-Avail		
Nov-2007	7	N-Avail	664,166	13.44	N-Avail	15.49	86
	13	N-Avail		15.68	N-Avail		
	28	N-Avail		17.36	N-Avail		
Dec-2007	4	N-Avail	692,741	17.92	N-Avail	17.36	100.30
	11	N-Avail		16.80	N-Avail		
	18	N-Avail		18.48	N-Avail		
	27	N-Avail		16.24	N-Avail		
Jan-2008	N-Avail	N-Avail	659,677	N-Avail	N-Avail	16.15	89
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		
Feb-2008	N-Avail	N-Avail	761,964	N-Avail	N-Avail	15.4	98
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		
Mar-2008	N-Avail	N-Avail	783,065	N-Avail	N-Avail	11.61	76
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		

NBC_ACLC_PT-001703

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Apr-2008	N-Avail	N-Avail	594,833	N-Avail	N-Avail	34.92	173
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		
May-2008	N-Avail	N-Avail	775,484	N-Avail	N-Avail	46.9	303
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		
Jun-2008	N-Avail	N-Avail	704,333	N-Avail	N-Avail	14.14	83
	N-Avail	N-Avail		N-Avail	N-Avail		
	N-Avail	N-Avail		N-Avail	N-Avail		
Jul-2008	1	740,000	668,548	1.68	10.37	12.88	72
	8	622,500		15.12	78.50		
	15	637,500		25.20	133.98		
	22	647,500		19.60	105.84		
	29	638,750		2.80	14.92		
Aug-2008	5	647,500	571,613	17.92	96.77	17.50	83
	12	636,428		14.56	77.28		
	19	666,428		22.96	127.61		
	26	683,571		14.56	83.01		
Sep-2008	2	619,285	740,000	19.04	98.34	14.90	92
	9	685,000		15.68	89.58		
	16	655,000		15.12	82.60		
	23	648,571		14.00	75.73		
	30	657,142		10.64	58.31		
Oct-2008	7	657,142	599,194	11.20	61.38	7.84	39
	14	687,857		5.04	28.91		
	21	680,714		7.84	44.51		
	28	647,142		7.28	39.29		
Nov-2008	6	667,143	653,000	7.84	43.62	10.50	57
	13	661,428		11.20	61.78		
	20	661,428		10.64	58.69		
	25	656,428		12.32	67.45		
Dec-2008	2	673,571	668,194	11.76	66.06	10.30	57
	9	651,428		9.52	51.72		
	18	664,285		11.76	65.15		
	23	597,857		10.08	50.26		
	30	672,857		8.40	47.14		
Jan-2009	8	710,000	635,645	10.64	63.00	9.38	50
	14	697,857		11.20	65.19		

NBC_ACLC_PT-001704

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	22	676,428		9.52	53.71		
	29	670,714		6.16	34.46		
Feb-2009	5	669,285	737,500	5.60	31.26	8.12	50
	12	675,625		10.64	59.95		
	19	715,000		7.84	46.75		
	26	695,714		8.40	48.74		
Mar-2009	5	692,857	659,677	10.08	58.25	10.50	58
	12	688,571		11.76	67.53		
	19	687,142		9.52	54.56		
	26	682,857		10.64	60.60		
Apr-2009	2	694,285	647,000	9.52	55.12	9.18	50
	9	699,285		6.16	35.93		
	15	679,285		11.20	63.45		
	23	717,857		10.64	63.70		
	30	717,142		8.40	50.24		
May-2009	7	755,714	707,419	9.52	60.00	9.80	58
	14	742,142		10.64	65.86		
	21	691,250		10.64	61.34		
	28	690,000		8.40	48.34		
Jun-2009	4	737,857	752,500	10.04	61.78	7.27	46
	11	723,571		10.08	60.83		
	18	688,570		3.92	22.51		
	24	687,142		5.04	28.88		
Jul-2009	2	697,857	685,968	15.68	91.26	13.33	76
	9	682,857		15.12	86.11		
	16	655,000		14.56	79.54		
	23	661,428		3.36	18.53		
	30	658,857		17.92	98.47		
Aug-2009	6	681,285	663,387	9.52	54.09	11.20	62
	13	687,714		12.32	70.66		
	20	750,714		11.20	70.12		
	27	820,428		11.76	80.47		
Sep-2009	2	838,428	669,900	17.36	121.39	11.34	63
	10	769,000		14.56	93.38		
	17	850,857		5.60	39.74		
	21	756,285		7.84	49.45		
Oct-2009	7	905,142	810,065	4.48	33.82	6.21	42
	14	865,714		3.92	28.30		

NBC_ACLC_PT-001705

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	21	814,285		7.48	50.80		
	28	645,714		8.96	48.25		
Nov-2009	4	890,000	819,367	7.28	54.04	7.28	50
	11	859,714		7.84	56.21		
	18	856,285		7.84	55.99		
	25	842,571		6.16	43.29		
Dec-2009	2	888,285	836,677	10.64	78.82	10.76	75
	9	913,714		11.78	89.77		
	16	789,000		11.20	73.70		
	23	678,857		9.52	53.90		
	30	815,285		10.64	72.35		
Jan-2010	6	763,428	818,290	5.60	35.66	7.56	52
	13	731,428		1.68	10.25		
	20	723,857		7.28	43.95		
	27	776,571		15.68	101.55		
Feb-2010	3	861,285	995,593	8.96	64.36	11.66	97
	10	835,571		11.20	78.05		
	17	816,428		10.80	73.54		
	24	820,428		15.68	107.29		
Mar-2010	3	848,714	847,742	15.68	110.99	20.83	147
	10	848,857		13.44	95.15		
	17	786,285		15.12	99.15		
	24	824,857		28.00	192.62		
	31	889,000		31.92	236.66		
Apr-2010	1	889,000	957,833	31.92	236.66	21.28	170
	8	858,000		16.80	120.22		
	15	961,142		21.28	170.58		
	21	963,571		17.92	144.01		
	29	968,142		18.48	149.21		
May-2010	6	1,024,285	925,452	16.80	143.51	17.08	132
	13	991,142		17.36	143.50		
	20	968,000		17.92	144.67		
	27	978,142		16.24	132.48		
Jun-2010	3	830,714	885,143	12.32	85.35	57.46	424
	10	792,000		45.92	303.31		
	17	929,000		72.24	559.71		
	24	933,857		62.72	488.49		
	30	940,142		94.08	737.66		

NBC_ACLC_PT-001706

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Jul-2010	1	940,142	917,828	94.08	737.66	44.35	340
	8	860,000		43.68	313.29		
	15	973,285		38.64	313.65		
	22	941,285		22.96	180.24		
	29	874,428		22.40	163.36		
Aug-2010	4	890,428	869,321	11.20	83.17	18.62	135
	11	828,714		19.60	135.46		
	18	870,857		20.16	146.42		
	25	887,285		23.52	174.05		
Sep-2010	1	891,571	868,799	1.12	8.33	16.58	120
	8	803,285		20.72	138.81		
	15	901,428		21.84	164.19		
	22	886,142		21.28	157.27		
	29	861,571		17.92	128.76		
Oct-2010	7	889,428	893,857	31.36	232.62	22.12	165
	14	892,571		22.40	166.75		
	21	890,000		17.92	133.01		
	28	903,428		16.80	126.58		
Nov-2010	3	867,142	876,285	16.24	117.45	9.94	73
	10	891,428		2.80	20.82		
	17	895,714		6.16	46.02		
	24	850,857		14.56	103.32		
Dec-2010	1	915,142	866,742	2.64	20.15	34.02	246
	8	920,428		17.36	133.26		
	15	893,285		35.84	267.01		
	20	793,142		67.76	448.22		
	28	811,714		46.48	314.66		
Jan-2011	5	847,571	858,000	24.64	174.17	32.76	234
	12	895,857		23.52	175.73		
	19	826,571		59.36	409.20		
	26	862,000		23.52	169.09		
Feb-2011	2	923,714	893,607	20.16	155.31	41.31	308
	9	880,428		43.16	316.91		
	16	900,142		58.24	437.22		
	23	870,142		43.68	316.99		
Mar-2011	2	888,428	690,178	27.44	203.32	44.14	254
	9	883,285		34.72	255.77		
	16	690,178		52.12	300.01		

NBC_ACLC_PT-001707

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	23	471,000		52.08	204.58		
	30	518,000		54.32	234.67		
Apr-2011	7	997,657	1,207,781	84.56	703.58	82.46	831
	14	1,352,800		81.20	916.13		
	21	1,206,667		84.56	850.98		
	28	1,274,000		79.52	844.91		
May-2011	4	1,280,885	1,088,803	40.32	430.72	66.92	608
	12	1,058,971		68.88	608.34		
	18	1,057,171		70.00	617.18		
	25	958,185		88.48	707.07		
Jun-2011	1	930,028	964,360	43.12	334.46	39.42	317
	8	1,019,900		33.04	281.04		
	15	966,471		40.88	329.51		
	22	1,023,400		43.68	372.82		
	29	882,000		36.40	267.75		
Jul-2011	7	772,857	871,639	18.48	119.12	35.84	261
	14	947,985		45.92	363.05		
	21	885,000		49.84	367.86		
	28	880,714		29.12	213.89		
Aug-2011	4	884,857	922,296	45.36	334.74	30.38	234
	11	880,714		27.44	201.55		
	18	947,000		39.76	314.02		
	25	976,614		8.96	72.98		
Sep-2011	1	964,571	1,013,797	56.00	450.49	29.55	250
	8	880,857		29.60	217.45		
	15	959,714		48.70	389.80		
	22	713,285		10.64	63.30		
	29	1,550,558		2.80	36.21		
Oct-2011	6	1,431,873	1,165,055	1.96	23.41	2.31	22
	13	1,644,318		3.92	53.76		
	20	1,584,029		2.80	36.99		
	27	1,602,382		0.56	7.48		
Nov-2011	2	1,539,482	1,708,086	0.93	11.94	18.10	258
	9	1,983,222		12.60	208.40		
	16	1,712,757		17.60	251.41		
	23	1,488,157		20.16	250.21		
	30	1,816,814		39.20	593.97		
Dec-2011	1	1975885	1,710,680	27.72	456.79	31.53	450

NBC_ACLC_PT-001708

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	7	1941700		29.12	471.56		
	14	1,244,128		39.76	412.55		
	21	1,366,957		30.23	344.63		
	28	2,024,728		30.80	520.10		
Jan-2012	5	1,726,228	1,676,791	35.00	503.89	27.30	382
	12	1,778,200		22.12	328.04		
	19	1,609,500		25.48	342.02		
	26	1,593,234		26.60	353.45		
Feb-2012	2	1,376,631	1,552,031	37.70	432.84	20.80	269
	9	1,701,899		36.20	513.82		
	16	1,493,753		22.10	275.32		
	23	1,553,693		6.90	89.41		
	29	1,634,181		1.12	15.26		
Mar-2012	7	940,166	1,520,970	18.48	144.90	21.45	272
	14	1,674,935		14.37	200.73		
	21	1,800,594		19.90	298.84		
	28	1,668,186		33.04	459.67		
Apr-2012	4	1,659,130	1,655,187	29.23	404.46	24.12	333
	11	1,699,304		21.50	304.70		
	18	1,605,562		5.60	74.99		
	25	1,656,753		40.13	554.49		
May-2012	3	1,661,981	1,625,651	56.37	781.34	44.29	600
	10	1,642,676		43.60	597.32		
	17	1,882,162		47.00	737.77		
	24	1,502,800		33.60	421.12		
	31	1,438,636		40.88	490.49		
Jun-2012	6	1,659,465	1,633,550	60.40	835.93	51.90	707
	13	1,727,533		45.10	649.78		
	20	1,559,949		86.28	1122.50		
	27	1,587,253		15.80	209.16		
Jul-2012	4	1,536,578	1,630,053	12.04	154.29	45.71	621
	11	1,752,793		60.80	888.79		
	18	1,494,898		54.60	680.72		
	25	1,735,941		55.40	802.07		
Aug-2012	1	1,563,707	1,492,273	80.36	1048.00	48.32	601
	8	1,416,768		36.40	430.10		
	15	1,440,617		55.25	663.81		
	22	1,548,000		21.28	274.73		

NBC_ACLC_PT-001709

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
Sep-2012	5	1,489,850	1,539,584	17.36	215.70	43.89	564
	12	1,713,898		47.04	672.39		
	19	1,446,267		52.92	638.31		
	26	1,508,320		58.24	732.62		
Oct-2012	3	1,633,608	1,539,432	37.52	511.18	13.50	173
	10	1,594,322		0.56	7.45		
	17	1,016,580		7.28	61.72		
	24	1,828,731		21.56	328.82		
	31	1,623,917		0.56	7.58		
Nov-2012	7	1,367,030	1,490,945	1.12	12.77	16.94	211
	14	1,655,935		2.80	38.67		
	21	1,475,392		40.32	496.13		
	29	1,465,421		23.52	287.45		
Dec-2012	7	1,367,030	1,490,945	1.12	12.77	16.94	211
	14	1,655,935		2.80	38.67		
	21	1,475,392		40.32	496.13		
	29	1,465,421		23.52	287.45		
Jan-2013	2	1,157,449	1,357,696	12.12	117.00	13.82	156
	9	1,677,668		45.92	642.50		
	16	1,247,067		5.60	58.24		
	23	1,281,508		4.90	52.37		
	30	1,424,786		0.56	6.65		
Feb-2013	6	1,342,674	1,313,943	3.10	34.71	1.48	16
	13	1,256,146		0.84	8.80		
	20	1,227,137		1.40	14.33		
	27	1,429,814		0.56	6.68		
Mar-2013	6	1,451,830	1,314,768	2.24	27.12	1.47	16
	13	1,401,325		0.84	9.82		
	21	1,402,770		0.56	6.55		
	27	1,003,145		2.24	18.74		
Apr-2013	3	1,150,747	1,249,728	1.96	18.81	1.54	16
	10	1,284,081		0.56	6.00		
	17	1,423,740		1.68	19.95		
	24	1,140,343		1.96	18.64		
May-2013	1	1,384,713	1,337,499	0.74	8.55	9.91	111
	8	1,198,336		0.56	5.60		
	15	1,397,696		6.44	75.07		
	22	1,232,868		36.96	380.03		

NBC_ACLC_PT-001710

Table 4 - Ammonia Discharged by Slaughterhouse into POTW[1]							
Month/Year	day	Daily Flow (gpd)	Avg. Monthly Flow (gpd)	Daily Ammonia Concentration (mg/L)	Daily Ammonia Load (lbs/day)	Avg. Monthly Ammonia Concentration (mg/L)	Avg. Monthly Ammonia Load into WWTP (lbs/day)
	29	1,473,883		4.85	59.62		
Jun-2013	5	1,598,171	1,423,593	5.41	72.11	14.96	178
	12	1,596,094		47.70	634.95		
	19	1,281,793		4.48	47.89		
	26	1,218,313		2.24	22.76		
Jul-2013	3	1,389,760	1,452,835	0.93	10.78	8.87	108
	10	1,501,650		5.80	72.64		
	17	1,512,018		6.16	77.68		
	24	1,160,841		2.24	21.69		
	31	1,699,904		29.24	414.54		
Aug-2013	7	1,425,380	1,524,265	16.80	199.71	7.53	96
	14	1,497,947		7.40	92.45		
	21	1,498,395		3.50	43.74		
	28	1,675,337		2.40	33.53		
Sep-2013	4	1,472,082	1,488,240	2.24	27.50	4.43	55
	11	1,567,981		8.40	109.85		
	18	1,569,353		5.60	73.30		
	25	1,343,542		1.49	16.70		
Oct-2013	2	1,343,698	1,341,348	0.74	8.29	0.74	8
	9	1,394,486		0.56	6.51		
	16	1,266,194		0.74	7.81		
	23	1,393,865		0.74	8.60		
	30	1,308,498		0.93	10.15		
Nov-2013	6	1,157,805	1,351,995	2.05	19.79	2.05	23
	13	1,509,292		3.92	49.34		
	20	1,285,788		1.12	12.01		
	27	1,455,094		1.12	13.59		
Dec-2013	4	1,584,649	1,493,598	1.12	14.80	1.47	18
	11	1,713,265		2.24	32.01		
	18	1,476,343		1.12	13.79		
	25	1,200,133		1.40	14.01		

NBC_ACLC_PT-001711

Table 5 - Brawley WWTP Influent, Effluent, and Net Ammonia Removal (%)[1]							
Month &Year	Avg Influent Ammonia (mg/L)	Avg Effluent Ammonia (mg/L)	Net Percent Removal	< 30 % Removal	< 10% Removal	< 5 % Removal	Essentially No Removal (< 2.5 %)
May-01	24.30	19.30	20.6	Yes	No	No	No
Jun-01	24.90	14.90	40.2	No	No	No	No
Jul-01	15.30	12.20	20.3	Yes	No	No	No
Aug-01	11.70	7.30	37.6	No	No	No	No
Sep-01	14.20	12.20	14.1	Yes	No	No	No
Oct-01	13.30	11.80	11.3	Yes	No	No	No
Nov-01	15.10	15.80	0.0	Yes	Yes	Yes	Yes
Dec-01	18.50	19.60	0.0	Yes	Yes	Yes	Yes
Jan-02	21.50	20.60	4.2	Yes	Yes	Yes	No
Feb-02	23.00	20.80	9.6	Yes	Yes	No	No
Mar-02	NR[2]	33.80	NA[3]	NA	NA	NA	NA
Apr-02	NR	26.40	NA	NA	NA	NA	NA
May-02	NR	40.00	NA	NA	NA	NA	NA
Jun-02	NR	36.20	NA	NA	NA	NA	NA
Jul-02	NR	34.10	NA	NA	NA	NA	NA
Aug-02	NR	33.60	NA	NA	NA	NA	NA
Sep-02	NR	26.80	NA	NA	NA	NA	NA
Oct-02	NR	30.00	NA	NA	NA	NA	NA
Nov-02	NR	35.00	NA	NA	NA	NA	NA
Dec-02	NR	28.30	NA	NA	NA	NA	NA
Jan-03	NR	45.00	NA	NA	NA	NA	NA
Feb-03	NR	30.00	NA	NA	NA	NA	NA
Mar-03	NR	41.10	NA	NA	NA	NA	NA
Apr-03	NR	45.40	NA	NA	NA	NA	NA
May-03	NR	35.00	NA	NA	NA	NA	NA
Jun-03	NR	35.00	NA	NA	NA	NA	NA
Jul-03	NR	33.50	NA	NA	NA	NA	NA
Aug-03	NR	22.40	NA	NA	NA	NA	NA
Sep-03	NR	25.00	NA	NA	NA	NA	NA
Oct-03	NR	19.18	NA	NA	NA	NA	NA
Nov-03	NR	1.40	NA	NA	NA	NA	NA
Dec-03	NR	24.10	NA	NA	NA	NA	NA

[1] Data on this table is based on Self-monitoring reports (SMRs) submitted by the City of Brawley to the Colorado River Basin Water Board.
[2] NR = Not reported.
[3] NA = Not applicable.

NBC_ACLC_PT-001712

Table 5 - Brawley WWTP Influent, Effluent, and Net Ammonia Removal (%)[1]							
Month &Year	Avg Influent Ammonia (mg/L)	Avg Effluent Ammonia (mg/L)	Net Percent Removal	< 30 % Removal	< 10% Removal	< 5 % Removal	Essentially No Removal (< 2.5 %)
Jan-04	26.50	27.40	0	Yes	Yes	Yes	Yes
Feb-04	17.00	27.00	0	Yes	Yes	Yes	Yes
Mar-04	21.50	24.40	0	Yes	Yes	Yes	Yes
Apr-04	20.00	21.28	0	Yes	Yes	Yes	Yes
May-04	19.75	1.68[4]	NA	NA	NA	NA	NA
Jun-04	19.20	2.24	NA	NA	NA	NA	NA
Jul-04	18.00	1.96	NA	NA	NA	NA	NA
Aug-04	20.30	1.40	NA	NA	NA	NA	NA
Sep-04	30.60	1.96	NA	NA	NA	NA	NA
Oct-04	20.60	0.84	NA	NA	NA	NA	NA
Nov-04	20.20	1.68	NA	NA	NA	NA	NA
Dec-04	35.33	26.32	25.5	Yes	No	No	No
Jan-05	34.33	34.20	0.4	Yes	Yes	Yes	Yes
Feb-05	30.00	27.16	9.5	Yes	Yes	No	No
Mar-05	NR	29.10	NA	NA	NA	NA	NA
Apr-05	28.00	30.80	0	Yes	Yes	Yes	Yes
May-05	23.00	20.44	11.1	Yes	No	No	No
Jun-05	29.00	11.20	61.4	No	No	No	No
Jul-05	19.50	19.04	2.4	Yes	Yes	Yes	Yes
Aug-05	16.02	18.48	0	Yes	Yes	Yes	Yes
Sep-05	16.80	17.36	0	Yes	Yes	Yes	Yes
Oct-05	20.02	19.74	1.4	Yes	Yes	Yes	Yes
Nov-05	19.94	16.69	16.3	Yes	No	No	No
Dec-05	29.12	27.86	4.3	Yes	Yes	Yes	No
Jan-06	28.84	26.46	8.3	Yes	Yes	No	No
Feb-06	27.02	30.10	0	Yes	Yes	Yes	Yes
Mar-06	25.88	27.88	0	Yes	Yes	Yes	Yes
Apr-06	27.16	31.64	0	Yes	Yes	Yes	Yes
May-06	30.91	31.25	0	Yes	Yes	Yes	Yes
Jun-06	29.10	29.06	0.1	Yes	Yes	Yes	Yes
Jul-06	32.20	35.14	0	Yes	Yes	Yes	Yes
Aug-06	25.42	26.16	0	Yes	Yes	Yes	Yes
Sep-06	24.22	29.21	0	Yes	Yes	Yes	Yes
Oct-06	37.24	24.64	33.8	No	No	No	No

[4] This and the following six values are not used because given previous performance data and type of WWTF are not realistic.

NBC_ACLC_PT-001713

Table 5 - Brawley WWTP Influent, Effluent, and Net Ammonia Removal (%)[1]							
Month &Year	Avg Influent Ammonia (mg/L)	Avg Effluent Ammonia (mg/L)	Net Percent Removal	< 30 % Removal	< 10% Removal	< 5 % Removal	Essentially No Removal (< 2.5 %)
Nov-06	27.44	30.34	0	Yes	Yes	Yes	Yes
Dec-06	36.44	37.38	0	Yes	Yes	Yes	Yes
Jan-07	41.64	42.12	0	Yes	Yes	Yes	Yes
Feb-07	52.08	50.82	2.4	Yes	Yes	Yes	Yes
Mar-07	27.00	18.62	31.0	No	No	No	No
Apr-07	33.16	22.26	32.9	No	No	No	No
May-07	34.61	31.81	8.1	Yes	Yes	No	No
Jun-07	30.80	33.60	0	Yes	Yes	Yes	Yes
Jul-07	31.11	31.78	0	Yes	Yes	Yes	Yes
Aug-07	28.22	31.36	0	Yes	Yes	Yes	Yes
Sep-07	27.44	28.00	0	Yes	Yes	Yes	Yes
Oct-07	20.15	20.27	0	Yes	Yes	Yes	Yes
Nov-07	18.76	20.30	0	Yes	Yes	Yes	Yes
Dec-07	17.64	18.76	0	Yes	Yes	Yes	Yes
Jan-08	18.82	21.06	0	Yes	Yes	Yes	Yes
Feb-08	20.44	20.02	2.1	Yes	Yes	Yes	Yes
Mar-08	21.03	19.46	7.5	Yes	Yes	No	No
Apr-08	26.32	25.87	1.7	Yes	Yes	Yes	Yes
May-08	29.12	30.18	0	Yes	Yes	Yes	Yes
Jun-08	22.96	21.56	6.1	Yes	Yes	No	No
Jul-08	20.94	19.26	8.0	Yes	Yes	No	No
Aug-08	20.44	17.50	14.4	Yes	No	No	No
Sep-08	19.94	17.36	12.9	Yes	No	No	No
Oct-08	18.34	16.39	10.6	Yes	No	No	No
Nov-08	18.34	16.94	7.6	Yes	Yes	No	No
Dec-08	19.40	19.60	0	Yes	Yes	Yes	Yes
Jan-09	21.00	21.28	0	Yes	Yes	Yes	Yes
Feb-09	22.30	23.66	0	Yes	Yes	Yes	Yes
Mar-09	22.40	NR	NA	NA	NA	NA	NA
Apr-09	NR	NR	NA	NA	NA	NA	NA
May-09	22.80	19.18	15.9	Yes	No	No	No
Jun-09	21.80	12.21	44.0	No	No	No	No
Jul-09	19.70	10.92	44.6	No	No	No	No
Aug-09	23.52	5.56	76.4	No	No	No	No
Sep-09	22.10	6.86	69.0	No	No	No	No
Oct-09	21.60	12.88	40.4	No	No	No	No

NBC_ACLC_PT-001714

Table 5 - Brawley WWTP Influent, Effluent, and Net Ammonia Removal (%)[1]							
Month &Year	Avg Influent Ammonia (mg/L)	Avg Effluent Ammonia (mg/L)	Net Percent Removal	< 30 % Removal	< 10% Removal	< 5 % Removal	Essentially No Removal (< 2.5 %)
Nov-09	20.40	21.67	0	Yes	Yes	Yes	Yes
Dec-09	23.40	22.89	2.2	Yes	Yes	Yes	Yes
Jan-10	26.70	22.82	14.5	Yes	No	No	No
Feb-10	24.60	24.22	1.5	Yes	Yes	Yes	Yes
Mar-10	22.60	23.86	0	Yes	Yes	Yes	Yes
Apr-10	32.80	29.82	9.1	Yes	Yes	No	No
May-10	35.70	34.02	4.7	Yes	Yes	Yes	No
Jun-10	NR	NR	NA	NA	NA	NA	NA
Jul-10	29.96	35.49	0	Yes	Yes	Yes	Yes
Aug-10	21.73	18.34	15.6	Yes	No	No	No
Sep-10	20.72	10.78	48.0	No	No	No	No
Oct-10	22.75	20.58	9.5	Yes	Yes	No	No
Nov-10	22.29	23.64	0	Yes	Yes	Yes	Yes
Dec-10	34.02	26.88	21.0	Yes	No	No	No
Jan-11	31.40	28.32	9.8	Yes	Yes	No	No
Feb-11	37.60	28.84	23.3	Yes	No	No	No
Mar-11	32.00	37.58	0	Yes	Yes	Yes	Yes
Apr-11	43.83	48.98	0	Yes	Yes	Yes	Yes
May-11	37.83	41.55	0	Yes	Yes	Yes	Yes
Jun-11	34.98	35.98	0	Yes	Yes	Yes	Yes
Jul-11	27.43	18.49	32.6	No	No	No	No
Aug-11	33.04	1.12	96.6	No	No	No	No
Sep-11	35.42	2.24	93.7	No	No	No	No
Oct-11	21.70	0.84	96.1	No	No	No	No
Nov-11	24.19	0.78	96.8	No	No	No	No
Dec-11	26.88	2.38	91.1	No	No	No	No
Jan-12	33.26	1.68	94.9	No	No	No	No
Feb-12	29.23	0.67	97.7	No	No	No	No
Mar-12	30.94	0.84	97.3	No	No	No	No
Apr-12	25.76	1.12	95.7	No	No	No	No
May-12	30.24	1.23	95.9	No	No	No	No
Jun-12	45.64	2.94	93.6	No	No	No	No
Jul-12	38.30	0.90	97.7	No	No	No	No
Aug-12	38.08	0.70	98.2	No	No	No	No
Sep-12	32.48	0.56	98.3	No	No	No	No
Oct-12	19.04	0.90	95.3	No	No	No	No

NBC_ACLC_PT-001715

Table 5 - Brawley WWTP Influent, Effluent, and Net Ammonia Removal (%)[1]							
Month &Year	Avg Influent Ammonia (mg/L)	Avg Effluent Ammonia (mg/L)	Net Percent Removal	< 30 % Removal	< 10% Removal	< 5 % Removal	Essentially No Removal (< 2.5 %)
Nov-12	23.94	0.98	95.9	No	No	No	No
Dec-12	21.98	0.84	96.2	No	No	No	No

NBC_ACLC_PT-001716

Table 6 - Summary of City of Brawley WWTP Toxicity						
Year	Date	Acute Toxicity?	Chronic Toxicity?	Percent of Time During Year with Acute Toxicity	Percent of Time During Year with Chronic Toxicity	Percent of Time with either Chronic or Acute Toxicity
2001	Jan-01	Yes	Yes	82%	55%	100%
	Feb-01	Yes	No			
	Mar-01	Yes	No			
	Apr-01	Yes	Yes			
	May-01	Yes	Yes			
	Jun-01	FTR	FTR			
	Jul-01	Yes	Yes			
	Aug-01	Yes	No			
	Sep-01	No	Yes			
	Oct-01	No	Yes			
	Nov-01	Yes	No			
	Dec-01	Yes	No			
2002	Jan-02	Yes	No	100%	0.75	100%
	Feb-02	Yes	No			
	Mar-02	Yes	Yes			
	Apr-02	Yes	No			
	May-02	Yes	Yes			
	Jun-02	Yes	Yes			
	Jul-02	Yes	Yes			
	Aug-02	Yes	Yes			
	Sep-02	Yes	Yes			
	Oct-02	Yes	Yes			
	Nov-02	Yes	Yes			
	Dec-02	Yes	Yes			
2003	Jan-03	Yes	Yes	92%	67%	100%
	Feb-03	Yes	Yes			
	Mar-03	Yes	Yes			
	Apr-03	Yes	Yes			
	May-03	Yes	Yes			
	Jun-03	Yes	Yes			
	Jul-03	Yes	Yes			
	Aug-03	Yes	No			
	Sep-03	Yes	No			
	Oct-03	No	No			
	Nov-03	Yes	Yes			
	Dec-03	Yes	No			

Table 6 - Summary of City of Brawley WWTP Toxicity						
Year	Date	Acute Toxicity?	Chronic Toxicity?	Percent of Time During Year with Acute Toxicity	Percent of Time During Year with Chronic Toxicity	Percent of Time with either Chronic or Acute Toxicity
2004	Jan-04	Yes	No	67%	58%	67%
	Feb-04	Yes	Yes			
	Mar-04	Yes	Yes			
	Apr-04	Yes	Yes			
	May-04	Yes	Yes			
	Jun-04	Yes	Yes			
	Jul-04	Yes	Yes			
	Aug-04	No	No			
	Sep-04	No	No			
	Oct-04	No	No			
	Nov-04	No	No			
	Dec-04	Yes	Yes			
2005	Jan-05	Yes	Yes	58%	25%	58%
	Feb-05	Yes	No			
	Mar-05	Yes	No			
	Apr-05	Yes	Yes			
	May-05	No	No			
	Jun-05	No	No			
	Jul-05	No	No			
	Aug-05	No	No			
	Sep-05	Yes	Yes			
	Oct-05	No	No			
	Nov-05	Yes	No			
	Dec-05	Yes	No			
2006	Jan-06	Yes	No	45%	25%	45%
	Feb-06	Yes	No			
	Mar-06	Yes	Yes			
	Apr-06	Yes	Yes			
	May-06	FTR	FTR			
	Jun-06	No	No			
	Jul-06	No	No			
	Aug-06	No	No			
	Sep-06	No	No			
	Oct-06	No	No			
	Nov-06	No	No			
	Dec-06	Yes	Yes			

Table 6 - Summary of City of Brawley WWTP Toxicity						
Year	Date	Acute Toxicity?	Chronic Toxicity?	Percent of Time During Year with Acute Toxicity	Percent of Time During Year with Chronic Toxicity	Percent of Time with either Chronic or Acute Toxicity
2007	Jan-07	Yes	Yes	100%	75%	100%
	Feb-07	Yes	Yes			
	Mar-07	Yes	Yes			
	Apr-07	Yes	Yes			
	May-07	Yes	Yes			
	Jun-07	Yes	Yes			
	Jul-07	Yes	Yes			
	Aug-07	Yes	No			
	Sep-07	Yes	No			
	Oct-07	Yes	Yes			
	Nov-07	Yes	Yes			
	Dec-07	Yes	No			
2008	Jan-08	Yes	No	83%	50%	92%
	Feb-08	yes	No			
	Mar-08	Yes	No			
	Apr-08	Yes	Yes			
	May-08	Yes	Yes			
	Jun-08	Yes	Yes			
	Jul-08	Yes	Yes			
	Aug-08	No	Yes			
	Sep-08	No	No			
	Oct-08	Yes	Yes			
	Nov-08	yes	No			
	Dec-08	Yes	No			
2009	Jan-09	Yes	Yes	75%	58%	75%
	Feb-09	Yes	Yes			
	Mar-09	Yes	Yes			
	Apr-09	No	No			
	May-09	Yes	No			
	Jun-09	Yes	Yes			
	Jul-09	Yes	Yes			
	Aug-09	No	No			
	Sep-09	Yes	Yes			
	Oct-09	No	No			
	Nov-09	Yes	Yes			
	Dec-09	Yes	No			

Table 6 - Summary of City of Brawley WWTP Toxicity						
Year	Date	Acute Toxicity?	Chronic Toxicity?	Percent of Time During Year with Acute Toxicity	Percent of Time During Year with Chronic Toxicity	Percent of Time with either Chronic or Acute Toxicity
2010	Jan-10	Yes	No	92%	83%	92%
	Feb-10	Yes	Yes			
	Mar-10	Yes	Yes			
	Apr-10	Yes	Yes			
	May-10	Yes	Yes			
	Jun-10	No	No			
	Jul-10	Yes	Yes			
	Aug-10	Yes	Yes			
	Sep-10	Yes	Yes			
	Oct-10	Yes	Yes			
	Nov-10	Yes	Yes			
	Dec-10	Yes	Yes			
2011	Jan-11	Yes	Yes	58%	58%	58%
	Feb-11	Yes	yes			
	Mar-11	Yes	Yes			
	Apr-11	Yes	Yes			
	May-11	Yes	Yes			
	Jun-11	Yes	Yes			
	Jul-11	Yes	Yes			
	Aug-11	No	No			
	Sep-11	No	No			
	Oct-11	No	No			
	Nov-11	No	No			
	Dec-11	No	No			
2012	Jan-12	No	No	0%	0%	0%
	Feb-12	No	No			
	Mar-12	No	No			
	Apr-12	No	No			
	May-12	No	No			
	Jun-12	No	No			
	Jul-12	No	No			
	Aug-12	No	No			
	Sep-12	No	No			
	Oct-12	No	No			
	Nov-12	No	No			
	Dec-12	No	No			

Notes:
FTR = Failure to Report

Table 7 - Avg. Monthly BOD and TSS Loading from Slaughterhouse into POTW[1]					
Month & Year	Flow Discharged (gpd)	BOD (mg/L)	BOD Load (lbs/day)	TSS (mg/L)	TSS Load (Lbs/day)
Jan-02	N-Avail	480.0	N-Avail	N-Avail	N-Avail
Feb-02	N-Avail	585.0	N-Avail	N-Avail	N-Avail
Mar-02	N-Avail	580.0	N-Avail	N-Avail	N-Avail
Apr-02	N-Avail	450.0	N-Avail	N-Avail	N-Avail
May-02	N-Avail	170.0	N-Avail	N-Avail	N-Avail
Jun-02	N-Avail	35.0	N-Avail	N-Avail	N-Avail
Jul-02	N-Avail	162.0	N-Avail	N-Avail	N-Avail
Aug-02	N-Avail	87.0	N-Avail	N-Avail	N-Avail
Sep-02	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail
Oct-02	N-Avail	246.0	N-Avail	N-Avail	N-Avail
Nov-02	N-Avail	318.0	N-Avail	N-Avail	N-Avail
Dec-02	N-Avail	186.0	N-Avail	N-Avail	N-Avail
Jan-03	N-Avail	246.67	N-Avail	N-Avail	N-Avail
Feb-03	N-Avail	N-Avail	N-Avail	N-Avail	N-Avail
Mar-03	N-Avail	80.00	N-Avail	N-Avail	N-Avail
Apr-03	N-Avail	213.50	N-Avail	NA	N-Avail
May-03	N-Avail	46.50	N-Avail	47.50	N-Avail
Jun-03	N-Avail	28.50	N-Avail	28.25	N-Avail
Jul-03	N-Avail	55.50	N-Avail	37.08	N-Avail
Aug-03	N-Avail	39.50	N-Avail	38.18	N-Avail
Sep-03	N-Avail	43.25	N-Avail	31.75	N-Avail
Oct-03	N-Avail	67.20	N-Avail	35.70	N-Avail
Nov-03	437,800	70.55	258	35.88	131
Dec-03	414,677	80.80	279	89.90	311
Jan-04	368,612	71.5	220	35.25	108
Feb-04	450,321	43.25	162	31.75	119
Mar-04	424,580	89.5	317	57.75	204
Apr-04	413,233	85.25	294	52.25	180
May-04	480,419	92.75	372	54.125	217
Jun-04	464,300	109.25	423	60.375	234
Jul-04	492,419	80.75	332	71.25	293
Aug-04	433,774	87.75	317	52.25	189
Sep-04	537,033	107	479	78.4	351
Oct-04	522,193	78.75	343	36	157

[1] Based on City of Brawley water quality and monitoring data for the slaughterhouse.

NBC_ACLC_PT-001721

Table 7 - Avg. Monthly BOD and TSS Loading from Slaughterhouse into POTW[1]					
Month & Year	Flow Discharged (gpd)	BOD (mg/L)	BOD Load (lbs/day)	TSS (mg/L)	TSS Load (Lbs/day)
Nov-04	526,100	137.25	602	44.875	197
Dec-04	436,677	100	364	47.5	173
Jan-05	407,258	107.5	365	63.5	216
Feb-05	497,892	113.7	472	116.3	483
Mar-05	430,967	64.3	231	55.9	201
Apr-05	364,766	115.0	350	84.8	258
May-05	451,838	203.3	766	50.1	189
Jun-05	480,066	59.8	239	62.9	252
Jul-05	490,967	83.8	343	76.4	313
Aug-05	489,645	56.5	231	73.2	299
Sep-05	454,900	23.3	88	91.9	349
Oct-05	431,580	64.7	233	75.7	272
Nov-05	359,000	79.8	239	62.5	187
Dec-05	459,709	84.5	324	46.1	177
Jan-06	521,225	139.0	604	52.5	228
Feb-06	539,107	202.7	911	70.5	317
Mar-06	529,290	83.5	369	61.3	270
Apr-06	575,033	50.5	242	37.1	178
May-06	497,032	42.7	177	44.5	184
Jun-06	591,833	86.8	428	60.8	300
Jul-06	609,903	105.5	537	43.9	223
Aug-06	624,129	140.6	732	52.7	274
Sep-06	732,466	83.0	507	80.0	489
Oct-06	554,645	92.3	427	67.0	310
Nov-06	600,866	130.8	655	48.4	243
Dec-06	522,741	216.0	942	60.8	265
Jan-07	691,032	89.8	518	54.7	315
Feb-07	724,464	213.0	1287	46.8	282
Mar-07	675,967	178.0	1003	38.6	218
Apr-07	644,000	104.8	563	46.8	251
May-07	688,709	140.4	806	39.5	227
Jun-07	643,709	171.5	921	57.1	306
Jul-07	664,193	176.8	979	50.9	282
Aug-07	665,967	204.2	1134	94.0	522
Sep-07	666,666	118.8	660	53.5	297
Oct-07	546,774	128.2	585	70.0	319
Nov-07	664,166	112.7	624	73.2	405

NBC_ACLC_PT-001722

Table 7 - Avg. Monthly BOD and TSS Loading from Slaughterhouse into POTW[1]					
Month & Year	Flow Discharged (gpd)	BOD (mg/L)	BOD Load (lbs/day)	TSS (mg/L)	TSS Load (Lbs/day)
Dec-07	692,741	95.0	549	58.5	338
Jan-08	659,677	116.4	640	44.6	245
Feb-08	761,964	138.3	879	39.9	253
Mar-08	783,065	108.5	709	36.4	238
Apr-08	594,833	114.4	568	41.4	205
May-08	775,484	118.3	765	74.0	479
Jun-08	704,333	131.8	774	57.6	338
Jul-08	668,548	117.8	657	53.3	297
Aug-08	571,613	114.6	546	46.3	221
Sep-08	740,000	127.6	787	33.7	208
Oct-08	599,194	122.9	614	60.6	303
Nov-08	653,000	111.8	609	245.9	1339
Dec-08	668,194	28.4	158	1110.7	6190
Jan-09	635,645	47.2	250	861.0	4564
Feb-09	737,500	50.7	312	350.4	2155
Mar-09	659,677	46.3	255	632.8	3481
Apr-09	647,000	44.8	241	865.8	4672
May-09	707,419	40.9	241	1280.8	7556
Jun-09	752,500	57.5	361	1000.0	6276
Jul-09	685,968	67.0	383	1557.0	8908
Aug-09	663,387	35.5	196	149.4	826
Sep-09	669,900	49.9	279	87.3	487
Oct-09	810,065	30.1	203	121.8	823
Nov-09	819,367	44.0	301	470.1	3213
Dec-09	836,677	178.4	1245	1809.1	12624
Jan-10	818,290	68.3	466	1008.5	6883
Feb-10	995,593	96.4	800	568.9	4724
Mar-10	847,742	30.7	217	32.2	228
Apr-10	957,833	50.3	401	39.6	316
May-10	925,452	77.4	597	32.4	250
Jun-10	885,143	144.3	1065	587.5	4337
Jul-10	917,828	283.2	2168	1130.1	8651
Aug-10	869,321	69.0	500	147.4	1068
Sep-10	868,799	92.2	668	122.8	890
Oct-10	893,857	74.0	552	68.8	513
Nov-10	876,285	74.2	542	193.0	1410
Dec-10	866,742	169.8	1227	424.0	3065

NBC_ACLC_PT-001723

Table 7 - Avg. Monthly BOD and TSS Loading from Slaughterhouse into POTW[1]					
Month & Year	Flow Discharged (gpd)	BOD (mg/L)	BOD Load (lbs/day)	TSS (mg/L)	TSS Load (Lbs/day)
Jan-11	858,000	282.0	2018	3801.0	27199
Feb-11	893,607	389.3	2901	2734.3	20377
Mar-11	690,178	303.4	1746	2789.8	16058
Apr-11	1,207,781	166.6	1678	162.8	1639
May-11	1,088,803	43.9	399	43.8	397
Jun-11	964,360	41.3	332	30.3	244
Jul-11	871,639	44.0	320	38.3	278
Aug-11	922,296	34.7	267	39.8	306
Sep-11	1,013,797	51.0	431	73.8	624
Oct-11	1,165,055	39.0	379	48.5	471
Nov-11	1,708,086	77.9	1109	47.3	674
Dec-11	1,710,680	77.9	1111	47.3	675
Jan-12	1,676,791	31.6	442	64.3	898
Feb-12	1,552,031	32.9	426	64.1	830
Mar-12	1,520,970	38.4	487	58.0	735
Apr-12	1,655,187	59.4	820	56.5	780
May-12	1,625,651	67.0	909	53.8	730
Jun-12	1,633,550	54.1	736	84.9	1157
Jul-12	1,630,053	91.5	1244	146.5	1992
Aug-12	1,492,273	62.7	781	82.3	1025
Sep-12	1,539,584	45.3	581	49.5	636
Oct-12	1,539,432	90.3	1159	370.4	4756
Nov-12	1,490,945	105.1	1306	100.5	1250
Dec-12	1,490,945	105.1	1306	100.5	1250
Jan-13	1,357,696	111.30	1260	142.92	1618
Feb-13	1,313,943	61.78	677	72.08	790
Mar-13	1,314,768	26.46	290	46.15	506
Apr-13	1,249,728	53.85	561	68.25	711
May-13	1,337,499	36.79	410	37.34	417
Jun-13	1,423,593	47.17	560	39.83	473
Jul-13	1,452,835	18.72	227	21.53	261
Aug-13	1,524,265	14.03	178	23.63	300
Sep-13	1,488,240	13.50	168	20.90	259
Oct-13	1,341,348	19.51	218	26.18	293
Nov-13	1,351,995	21.10	238	31.02	350
Dec-13	1,493,598	67.58	842	59.53	741

NBC_ACLC_PT-001724

Table 8 - NBC's TSS Slugs into the POTW[1]				
Month/Year	Date	Flow (gpd)	TSS (mg/L)	TSS (lbs/day)
Dec 2008	9	651428	1734	9418
	30	672857	2230	12514
Jan 2009	14	697857	1711	9955
Apr 2009	15	679,285	2510	14220
May 2009	7	755,714	4706	29660
Jun 2009	11	723,571	2034	12274
Jul 2009	16	655,000	2286	12488
	23	661,428	1669	9204
	30	658,857	2569	14114
Nov 2009	25	842,571	1686	11844
Dec 2009	9	913,714	2606	19855
	16	789,000	1218	8011
	23	678,857	4519	25585
Jan 2010	20	723,857	3072	18546
Feb 2010	3	861,285	1647	11827
Jun 2010	17	929,000	1367	10591
Jan 2011	12	895,857	3290	24581
	19	826,571	8114	55935
	26	862,000	3250	23365
Feb 2011	16	900,142	4340	32581
	23	870,142	6006	43585
Mar 2011	2	888,428	3096	22940
	9	883,285	3042	22409
	16	690,178	7600	43746

Notes

1. Unless otherwise noted, table is based on City of Brawley data