ENVIRON

February 12, 2009

Mr. Al Linero
Program Administrator
Special Projects Section
Florida Department of Environmental Protection
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Re: Response to Second Request for Additional Information
Project Number: 0570057-020-AC

Dear Mr. Linero:

We are in receipt of your November 14, 2008 letter requesting additional information in support of the Air Construction Permit Application we submitted on August 8, 2008 for the modification of EnviroFocus Technologies, LLC's lead recycling facility in Tampa, Florida. Since receipt of that letter we have been in frequent contact with David Read and Debbie Nelson of your staff and Sterlin Woodard and Diana Lee of the Hillsborough County EPC regarding specifics of the information request.

Enclosed is a compilation of the additional information requested by the Department. Accompanying this material are certification forms providing statements by both the facility Owner and a Florida Professional Engineer in support of the additional information being submitted.

We trust that with the submittal of this information in response to your November 14, 2008 request our application is complete.

We appreciate the assistance of your staff, the staff of the Hillsborough County EPC, and the staff of U.S. EPA – Region 4 in reviewing our application. Please feel to call me at 678-388-1654 with any questions or comments you may have regarding the enclosed responses.

Sincerely,

Russell S. Kemp, PE
Principal

Enclosures

cc. Sterlin Woodard, PE, Hillsborough County EPC
John Tapper, EnviroFocus Technologies, LLC

APPLICATION INFORMATION

RECEIVED
FEB 13 2009
BUREAU OF AIR REGULATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :
   John Tapper, Chief Operating Officer
2. Owner/Authorized Representative Mailing Address...
   Organization/Firm: **EnviroFocus Technologies, LLC**
   Street Address: **1901 N. 66th Street**
   City: **Tampa** State: **Florida** Zip Code: **33619**
3. Owner/Authorized Representative Telephone Numbers...
   Telephone: **(651) 405 - 2203** ext. Fax: **(651) 454 - 7926**
4. Owner/Authorized Representative Email Address: **jtapper@gopherresource.com**
5. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.

Signature

2/10/09
Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: **Russell S. Kemp, P.E.**
   Registration Number: **56355**

3. Professional Engineer Mailing Address...
   Organization/Firm: **ENVIRON International Corp.**
   Street Address: **1600 Parkwood Circle, Suite 310**
   City: **Atlanta** State: **Georgia** Zip Code: **30339**

3. Professional Engineer Telephone Numbers...
   Telephone: **(678) 388 - 1654** ext. Fax: **(770) 874 - 5011**

4. Professional Engineer Email Address: **rkemp@environcorp.com**

5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here ☒, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here ☐, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here ☐, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature 2/11/09
Date

(seal)

* Attach any exception to certification statement.

The following information is being submitted in response to a request for additional information from Florida Department of Environmental Protection (DEP) dated November 14, 2009. Also included are responses to questions from the Hillsborough County Environmental Protection Commission (EPC) and U.S. Environmental Protection Agency – Region 4 (EPA) that were attached to the letter from DEP. DEP, EPC, and EPA's comments are reiterated in italics for the sake of convenience. Additional information is attached to supplement the responses, where needed.

DEP-1 EPA NAAQS. Due to the recent EPA revision of the National Ambient Air Quality Standard (NAAQS) for lead, please revise the application regarding the lead, including updating the modeling analysis. [Rule 62-4.070, F.A.C. Reasonable Assurance]

In order to provide reasonable assurance of compliance with the new lead standard, EnviroFocus has revised its impact analysis as presented in **Attachments A through E**. As part of this analysis, EnviroFocus is proposing new, lower emission limits for its lead-emitting stacks and has increased the height of one of these stacks (Battery Breaker Scrubber Stack) from 90' to 130'.

DEP-2 Modeling. Please verify that all sources within the Significant Impact Area (SIA) for each pollutant were modeled. [Rule 62-4.070, F.A.C. Reasonable Assurance]

The modeling excluded sources which were screened out using the 20D method. No sources within the SIAs for NOx or lead were excluded. Only one source located in the SIA for PM10, Mantua Manufacturing Co. (ID 0570321), was excluded. This source has been added to the modeling for PM10 and the new modeling results are presented in the revised Tables in **Attachment F**. Electronic copies of the revised modeling files are being submitted to Debbie Nelson of DEP.

DEP-3 Particulate Matter (PM). With regards to the PM_{10} Prevention of Significant Deterioration (PSD) Increment and NAAQS modeling, please update Table 5-21 to show maximum concentrations, not just the impacts from particular receptors where the Envirofocus facility was significant. [Rule 62-4.070, F.A.C. Reasonable Assurance]

Table 5-21 has been revised accordingly and is presented in **Attachment F**.

DEP-4 Receptor Grid. With regards to modeling, is the receptor grid for the increment and NAAQS analyses for PM and lead at or below 100 meter spacing in areas of significance? [Rule 62-4.070, F.A.C. Reasonable Assurance]

The spacing of the receptor grids is 50 meters for PM_{10}, lead, and NOx.

DEP-5 PM_{10} Increments. With regards to the PM_{10} increment and NAAQS modeling, please explain how it was determined that receptors over the threshold were not located in the SIA of the Envirofocus facility. Were the SIA, increment and NAAQS receptor grids exactly the same where thresholds were violated? Explain how the Access Database regarding this issue was developed.

Each of the PM 24-hour models was run with a few max file outputs. For example, in PMst01m.dat, the following three max files were generated.
OU MAXIFILE 24 EFT 5 PMST01MSIG.MAX
OU MAXIFILE 24 INC 20 PMST01MINC.MAX
OU MAXIFILE 24 ALL 30 PMST01MALL.MAX

The source group EFT includes all the sources of EFT, The INC source group includes all the increment-consuming sources, and the ALL source group includes all the modeled sources. They all were modeled in one run over exactly the same grid.

Table "PMSTSIG" of "PM ST.mdb" includes the five files: PMST01MSIG.MAX, PMST02MSIG.MAX, PMST03MSIG.MAX, PMST04MSIG.MAX and PMST05MSIG.MAX. This table therefore lists all the days and locations where the EFT impact is over 5 ug/m^3, i.e. where and when the EFT impact would be significant, during the five year modeling period. The table includes the following columns: averaging time, source group, date, UTMx, UTMy, ZELEV, ZHILL, ZFLAG and average concentration.

Table "PMSTINC" of "PM ST.mdb" includes the five files: PMST01MINC.MAX, PMST02MINC.MAX, PMST03MINC.MAX, PMST04MINC.MAX and PMST05MINC.MAX. This table therefore lists all the days and locations, when and where the impacts of the increment-consuming sources are over 20 ug/m^3. The table includes the following columns: averaging time, source group, date, UTMx, UTMy, ZELEV, ZHILL, ZFLAG and average concentration.

Table "PMSTALL" of "PM ST.mdb" includes the five files: PMST01MALL.MAX, PMST02MALL.MAX, PMST03MALL.MAX, PMST04MALL.MAX and PMST05MALL.MAX. This table therefore lists all the days and locations, when and where the impacts of all the modeled sources are over 30 ug/m^3. The table includes the following columns: averaging time, source group, date, UTMx, UTMy, ZELEV, ZHILL, ZFLAG and average concentration.

Query "IncrementExceedence" of "PM ST.mdb" matches up the days and locations in Tables "PMSTSIG" and "PMSTINC". The results are potential increment exceedences where and when the EFT impact is over 5 ug/m^3 AND the impacts of the increment-consuming sources are over 20 ug/m^3.

Query "NAAQSExceedence" of "PM ST.mdb" matches up the days and locations in Tables "PMSTSIG" and "PMSTALL". The results are potential increment exceedences where and when the EFT impact is over 5 ug/m^3 AND the impacts of all the modeled sources are over 30 ug/m^3.

Queries "NAAQSExceedence" and "IncrementExceedence" are copied to "postprocessing PMST.xls". The highest 6th high over 5 years was determined for the NAAQS modeling results. The highest 2nd high of each year was determined for the increment modeling results.

DEP-6 Road Modeling. Appendix B in the application, under the "roads" tab states that shipping will occur between the hours of 6 am and 10 pm. However, roads were only modeled from 7 am to 10 pm. Please clarify this discrepancy. [Rule 62-4.070, F.A.C. Reasonable Assurance]

The first hour of the day is for the hour from midnight to 1 AM, therefore Hour Seven, the first hour with shipping emissions in the model, starts at 6 AM. This is an example:

```
SO EMISFACT  RD1_1  HROFDY  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.0  1.0  1.0
SO EMISFACT  RD1_1  HROFDY  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0
SO EMISFACT  RD1_1  HROFDY  1.0  1.0  0.0  0.0
```

DEP-7 Eagan Minnesota Pb Recycling Facility. Please provide any available historical Pb monitoring data in and around the Eagan Minnesota Lead Recycling Facility. We are interested in trends over the years as the facility was progressively modernized and production was expanded. In addition, please provide descriptions of when pollution control improvements took place at the facility. [Rule 62-4.070, F.A.C. Reasonable Assurance]

One of the lead monitors near the Eagan facility (located southeast of the plant) was in continuous operation from 1990 until 2005. The annual average lead concentrations from this monitor (ID 27-037-0001) are presented in a table in **Attachment G** along with the plant production for each year. This data is also presented graphically in **Attachment H**. As shown, the plant's production increased from 44,436 tons to 137,334 tons during this period, while the average lead concentration decreased from 1.062 ug/m^3 to 0.068 ug/m^3. This reduction in ambient lead concentrations was achieved through a series of fugitive dust control practices, the most prominent of which was the ventilation of the furnace fugitives to a Torit collector in 1992.

DEP-8 Future NAAQS Compliance at Eagan Facility. Review the most recent ambient data at Eagan and how it compares with the new NAAQS. Please advise of the planned measures, if any, needed to insure the Eagan facility will comply with the new NAAQS for Pb. [Rule 62-4.070, F.A.C. Reasonable Assurance]

Below is a list of the measures being undertaken or under consideration at the Eagan facility:

GRC ACTIONS CURRENTLY BEING DONE TO REDUCE FUGITIVES IN EAGAN

1) Consultant performing comprehensive airflow measurements study of existing ventilation systems. Will then make recommendations on improvements.
2) Same consultant has been performing air monitoring study on entire facility – attempting to quantify all potential fugitive sources (roof, afterburner, doorways, roadway, etc.).
3) Air modeling study by Environ.
4) As we replace roof sections in the future, we will replace the old style roof with rock ballast to a material that looks more like a roofing shingle (in 3' widths which are tarred together). We're installing this new material on one section of the processing building this month (December) to evaluate. Easy to vacuum if spills occur when cleaning ductwork above roofline.
5) Engineering firm is evaluating wind issues if we were to enclose the afterburner.
6) Replacing both of our perimeter monitors the last week of December. The new units will have the self-closing inlet valves to eliminate fugitives from impacting outside of the 24 hr. period.

ITEMS BEING EVALUATED BUT NOT COMMITTED TO AT THIS TIME.

1) Additional ventilation controls – additional torit system capacity is a high priority and consultants report will likely emphasize this.
2) Considering installing one of the old monitors on the NE corner of GRC property (or in centrally located park) near private residences to determine actual exposures to nearby homes.

DEP-9 EnviroFocus Hillsborough County (Tampa) Recycling Facility. Please provide a construction timeline with the major tasks involved if and when modification of this facility proceeds with emphasis on the measures taken to control fugitive emissions of contaminated soil during construction and their corresponding scheduling. [Rule 62-4.070, F.A.C. Reasonable Assurance]

Attachment I presents a Construction Fugitive Control Plan that outlines the measures to be taken to minimize fugitive emissions during the expansion of the EnviroFocus facility. Also, attached is a draft construction schedule for the project. A final schedule will be made available to the agency upon completion.

DEP-10 Comments from the Environmental Protection Commission of Hillsborough County (EPCHC). EPCHC is the local compliance authority and recently permitted a number of improvements at the site. They are assisting the Department in the review of the present application. Please review and address their comments listed in the attached memorandum.

Below are the comments from EPC along with EnviroFocus's responses:

EPC-1 According to EnviroFocus, as stated on Page 6, Section 2.31 of the Application, molten lead from the Reverb Furnace will be conveyed to the Refining Kettles through channels called launders. In response to EPC's Question #1, EnviroFocus stated that the launders will be heated by natural-gas fired pipe burners. There will be 3 pipe manifolds with a maximum capacity of 150,000 Btu/hr each. Manufacturer's information was provided in Attachment K. EPD staff reviewed attachment K, in which it shows on Section 4.2, a table with information for three Line Burner assemblies with a 1.5, 2 and 3 inch inlets with a corresponding maximum Btu/hr for each depending on the % primary air in the premix. The lowest Btu/hr value is 170,000. In addition, Figure 6 shows different pipe sizes with a corresponding cubic feet per hour value.

Pursuant to Rule 62-4.070(3), F.A.C., please clarify and provide specific information on the line burner assembly, that includes the specific pipe size, that will be used for the pipe burners to heat the launders. In addition, since the lead will be in a molten state, it is reasonable to believe that lead emissions will be emitted from the molten lead in transit from the reverb furnace to the refining kettles. Please explain if there are emissions associated from the operation (tapping), and if so, please calculate these emissions and resubmit the calculations in accordance with 62-4.055(l). F.A.C. and Rule 62-4.070(l), F.A.C., and revise the Application accordingly.

The pipe burners used to heat the launders will be fed by 1.5 inch pipes. The value of 170,000 Btu/hr cited above is listed in the manufacturer's information as the maximum firing rate for a 1.5 inch inlet, assuming 100% primary air in the premix. Envirofocus estimates that the burners will only be capable of firing 150,000 Btu/hr. The lead emissions resulting from the transition from the furnace to the kettles are extremely low and are accounted for in the application as part of the general building ventilation emissions, which are controlled by the Torit collector.

EPC-2 In response to EPC Questions 3-5, EnviroFocus provided an explanation on the emissions inventory in Appendix B. According to EnviroFocus, Appendix B of the permit application consists of several parts. The first part is a spreadsheet consisting of 18 tables showing how future actual and potential emissions from the facility were estimated. Following those tables, is a set of spreadsheets that show how the baseline emissions were developed. The test data used in this Section is from previous tests performed at the Tampa facility. The

baseline emissions were calculated over a 24-month period of operation at the Tampa facility using emissions factors from stack tests at the Tampa facility over a five year period to determine PSD applicability.

EPC review of the spreadsheet titled "Baseline emissions and comparison with PSD threshold" shows under pollutant SO2 an Emission Unit titled "Sulfur refinery usage". Similarly, under NOx, there is an Emission Unit title "Niter refinery usage". The current title V Permit, Permit No. 0570057-016-AV, does not include or reflect either one of these operations at the Tampa facility. Also, under PM/PM10 and Lead, emission unit "Breaker Fugitives", emissions were calculated to be 4.58 TPY and 0.058 TPY, respectively. In accordance with rules 62-210.200(36)(b) and 62-210.370(2)(d), F.A.C., baseline actual emissions must be calculated over a 24-month period in which the emission unit at the Tampa facility actually emitted the pollutant using site specific emission factors based upon all stack test conducted at the Tampa facility during at least a five year period encompassing the period over which the baseline emissions are being computed.

Pursuant to Rule 62-4.070(l), F.A.C., please provide an explanation on the sulfur refinery and niter refinery usages, and the basis for the emission factor and 24-month production values. Also, for the breaker fugitives, please explain the basis for the PM/PM10 and lead emission factors and the 24-month production value. Pursuant to Rule 62-2121.400, F.A.C., please re-evaluate and re-submit the "Baseline Emissions and Comparison with PSD Threshold" calculations, as part of the PSD applicability analysis, and revise the Application accordingly.

The sulfur and niter (sodium nitrate) are added to the molten lead in the Refining Kettles to remove impurities. The sulfur dioxide and nitrogen oxides emissions resulting from this process were estimated using emission factors that take into account the amount of material added. The sulfur dioxide emission factor of 0.133 lb. SO_2/lb of sulfur was developed from stack testing at Exide Technologies in California. A page from the Exide facility's current operating permit showing this SO_2 emission factor is included as **Attachment J**. The emission factor for NO_X of 0.24 lb NO_X/lb of niter, which was developed from stack testing at Sander's Lead in Alabama, has been used in past permitting exercises at EnviroFocus, including the most recent Title V permit application (a copy of the page from the Title V application is also included in **Attachment J**). The 24-month production values were obtained from plant records.

The fugitive lead and PM10 emissions from the Battery Breaker were estimated using emission factors of 0.0044 lb/ton and 0.356 lb/ton, respectively. The lead emission factor is based on an emission factor of 0.0011 mg/kg suggested for lead compounds in the Secondary Lead NESHAP background document (EPA 453/R-94-024b page D-56). This value was first converted to lb/ton and then a conversion factor of two was applied to incorporate a typical ratio of elemental lead to lead compounds. The following calculation shows the result:

EF = 0.0011 kg/Mg x 10^{-3} kg/Mg x 2000 lb/ton x 2 lb Pb/ lb compound = 0.0044 lb/ton

The fugitive PM10 emission factor was based on stack test results from an Exide smelter in Georgia. The results show a controlled PM emission rate of 0.610 lb/hr from a similar battery breaker controlled by a wet scrubber. The scrubber's efficiency was 85%. The uncontrolled emission rate was calculated as follows:

PM emission rate = 0.610 lb/hr / (1-0.85) = 4.067 lb/hr

The Georgia facility's maximum annual production rate of 100,000 ton/yr was then applied as shown below to determine the appropriate emission factor:

EF = 4.067 lb/hr x 8760 hr/yr / (100,000 ton/yr) = 0.356 lb/ton

The 24-month production rates for the determination of past actual fugitive emissions from the Battery Breaker were obtained from plant records.

DEP-11 Comments from EPA Region 4. EPA advised they will provide comments on November 14. We will forward them after receipt. They provided a good idea of their issues during our joint meeting with them on November 3, 2008.

Below are the comments from EPA along with EnviroFocus's responses:

BACT Analysis

EPA-BACT1 The applicant should provide a summary table which includes particulate matter, nitrogen oxides (NO_X), and lead emissions increases and/or decreases for each new, modified, and existing emission unit associated with the proposed capacity expansion project. If possible, it would be helpful to clarify what portion of fugitive emissions would be considered to be lead dust emissions as well as their particular source. It is presently unclear from the application package which particular production activity, material handling operation, or transportation activity may be contributing to fugitive emissions increases.

A table showing the emissions increases and decreases by emission unit is presented in **Attachment K**.

The applicant should also clarify whether or not emissions limits proposed as Best Available Control Technology (BACT) in Section 4 of the application, other than those proposed for furnace NO_X emissions, are based in part on actual operational or test data from the Tampa, Eagan, or other similar facility. The collection efficiencies of any ventilation capture equipment, hood collectors, and draft enclosures should also be discussed in the application.

The emission limits proposed as BACT for PM_{10} and lead were based on the use of fabric filters, which have the highest efficiency for control of these pollutants. The emission limits were expressed as concentration limits as this is the most reliable metric for determining fabric filter effectiveness. The numeric values proposed were based on a review of RBLC determinations, NESHAP and NSPS limits, and testing at the Eagan facility which utilizes these controls. The emission inventory, included as **Attachment B**, shows the Eagan test values for comparison with the proposed limits. The collection efficiency for process emissions was considered to be 100% as the processes will be completely enclosed and the building will be under negative pressure created by the Torit collector.

EnviroFocus should provide technical references, control equipment vendor information, and background technical and/or economic information and documents which form the basis for determining that add-on controls are infeasible for control of lead smelting blast/reverb furnace and kettle refining NO_X emissions. Catalyst poisoning and ammonia slip are common considerations in the application of selective catalytic reduction (SCR) and selective non-catalytic reduction (SNCR) control technologies to many processes. The potential for a

common problem does not by itself eliminate additional consideration of well established control technologies without additional technical justification.

There are very few proven methods for removing nitrogen oxides from flue gas. The more common methods involve reduction with ammonia or urea. Both catalyzed, non-catalyzed, and hybrid reactions have been used to reduce nitrogen oxides formed by internal combustion engines and some stationary sources such as power plants. These processes, known as Selective Catalytic Reduction (SCR) and Selective Non-Catalytic Reduction (SNCR) inject ammonia or ammonia generating compounds like urea into the gas stream at high temperatures (>1500 ^{O}F for SNCR and lower temperatures for SCR). Under ideal conditions, these processes can be reasonably efficient. However, ideal conditions are seldom available and destruction efficiencies may be low in an un-optimized process. The most efficient conversion of nitrogen oxides requires ammonia in excess of the NO_x stoichiometric requirements. Overall, either process may pass a significant portion of the injected ammonia down stream of the control devices.

In the case of the Reverberatory Furnace, there is only one location suitable for SNCR processes and that location is in the furnace exhaust immediately down stream of the furnace. This is the only location in the flue gas handling process that can maintain an adequate temperature for NO_x reduction. There are a number of problems with locating SNCR in this location. The flue gas has a large volume of entrained particulates at this location. The furnace feed stock is composed of lead carbonate, lead sulfate, lead oxide and lesser amounts of lead metal, selenium, antimony, and other trace metals. Significant amounts of these metals are present in the flue gas as particulate, fume, or vapor. These metals have a great affinity for ammonia and consume much of the ammonia in the production of salts. Injection rates for ammonia would have to be much higher than the stoichiometric amount necessary for NOx reduction resulting in both the generation of large amounts of ammonia salts and the passing of excess free ammonia in the exhaust stream. In addition, safety concerns would preclude the use of urea as the reagent in this location. The introduction of an aqueous solution at the furnace breeching runs the risk of introduction of water into the furnace and potential steam explosions. Thus, the SNCR reagent would have to be anhydrous ammonia, the storage and handling of which raises its own safety and environmental concerns.

While an SNCR process would eliminate the catalyst related problems associated with SCR, the process is typically less efficient and is likely to result in significant ammonia down stream of the reaction zone. Ammonia salts are typically unstable above 200 ^{O}C (~400 ^{O}F). It is likely that a significant quantity of any excess ammonia would be retained as a particulate salt in the baghouse. Ammonia that does not immediately form salts would pass through the baghouse and be captured in the SO_2 scrubber, forming salts there.

Both situations present a problem for wastewater pretreatment. Baghouse dust is to be returned to the Raw Materials Processing System (RMPS) for recovery of lead. This operation includes a desulfurization process designed to convert a significant portion of the lead sulfate to lead carbonate. Soluble salts (including ammonium salts) would follow the filtrate from the desulfurization filter press to the wastewater pretreatment system. Ammonia passing through the baghouse would be captured in the sulfur dioxide wet scrubber as ammonium sulfite or sulfate and then transferred to wastewater pretreatment in the scrubber blow down. The combination of potential pathways could introduce significant concentrations of ammonia to the wastewater pretreatment system. In the case of SNCR the ammonia would reach the wastewater treatment system via either the baghouse dust or scrubber blowdown. In the case

of SCR, the ammonia would reach the wastewater treatment system via the scrubber blowdown only.

Ammonium anions in the wastewater treatment system interfere with the removal of lead and other metals in the pretreatment system. This is a critical concern. Ammonia salts are complexing agents and lead is very soluble in ammonia solutions. The ammonium ions that would be introduced will complex with the heavy metals and prevent their precipitation and removal in the facility's wastewater treatment system.

In addition, the categorical wastewater pretreatment standards for secondary lead smelters (40 CFR 421.430-421.137) contain a limit of "0" for ammonia. It is generally recognized that this standard was intended to prevent use of ammonia to neutralize waste acid and the deleterious effects of large quantities of nutrients discharged to a stream or public treatment works. Nonetheless, the introduction of SNCR or SCR to the facility would lead to discharges of ammonia from the facility's wastewater treatment system necessitating a variance from these federal wastewater pretreatment standards.

In short, neither SCR nor SNCR are technically feasible at secondary lead smelters due to the ammonia interference that would impact the facilities' wastewater treatment systems' ability to remove lead and other heavy metals from wastewater discharge streams. This is an environmental concern as well. These concerns are the very reasons such technologies (SCR or SNCR) have never been employed at secondary lead smelters in the United States. The small amount of NOx emissions potentially prevented is certainly not worth interference with these facilities' primary function – the prevention of lead reaching the environment from spent lead-acid batteries. Additionally, SCR would have to be installed downstream of the baghouse to avoid premature catalyst fouling, where the gases have cooled below the temperature required for catalyst operation, necessitating the reheating of the gas stream, thereby increasing energy use and producing additional pollutant emissions. We, therefore, reject SCR as BACT for NOx at the EFT facility on the grounds of technical infeasibility, energy concerns, and other environmental effects. We reject SNCR as BACT for NOx at the EFT facility on the grounds of technical infeasibility, safety concerns, and other environmental effects.

The BACT analysis for emergency generator NO_X emission should also include a discussion regarding the feasibility of combustion modifications such as ignition timing retard and turbocharging/aftercooling.

The proposed emergency generator is expected to operate 200 hours per year or less, generating less than 1 ton/yr of NOx. The engine will be capable of meeting EPA Tier 2 Standards for non-road engines and will meet a NOx emission level of 6.9 g/bhp-hr, commonly referred to as BACT2 control under the rules of the California Air Resources Board (CARB).

The application should also clarify whether or not pollution prevention options have been considered in the application.

The NO_X BACT controls proposed for the furnace emissions, oxy/air/fuel burners and good combustion practices, represents the best control option available and are considered "pollution prevention."

EPA-BACT2 In several subsections in Section 4 of the applicant's BACT analysis, the proposed BACT emission limits are described as one third the allowable Reasonably Available

Control Technology (RACT) concentration limit, one half the Maximum Available Control Technology (MACT) limit, the New Source Performance Standard (NSPS) limit, or one quarter the NSPS limit. It should be noted that proposing an emission limit equal to or below a limit established within a separate regulatory requirement does not reduce a source's obligation to perform a complete top-down facility specific BACT analysis per the requirements of the PSD regulations. As technology becomes available and improves, BACT emission limits are continuously reduced. It is incorrect to assume that limiting an analysis to existing control strategies required to comply with either NSPS or National Emission Standards for Hazardous Air Pollutants (NEHSAP) limits simplifies the BACT analysis process. The technical and economic feasibility of presently available as well as innovative control options more stringent than those considered during the development of NSPS or NESHAP requirements must be evaluated on a case-by-case basis. A significantly lower emission limit may be determined BACT for a particular process due to improvements in technology and technology transfer long after the promulgation of a NSPS or NESHAP rule. The final rule for the new and existing secondary lead smelters NESHAP was promulgated on June 23, 1995.

The proposed BACT limits for PM10 and lead were based on the use of baghouses, which are the highest efficiency control devices available and typically provide in excess of 99% control of these pollutants. The NSPS and NESHAP emissions limits, which were developed from stack testing on facilities using baghouses, are included in the application for reference.

EPA-BACT3 The lead monitored background concentration of 0.47 ug/m^3 exceeds the new lead National Ambient Air Quality Standard (NAAQS) of 0.15 ug/m^3. The new lead standard should be taken into consideration and addressed in the application.

The lead impact analysis has been revised and is presented in **Attachments A through E** to address the new lead standard that was published subsequent to the submittal of the application. This new analysis includes a revisitation of the background concentration used in the analysis and the reduction of proposed lead emission limits, as well as an increased height for the Battery Breaker Scrubber Stack, to provide better dispersion.

EPA-BACT4 The permit application did not contain an environmental justice analysis. Due to the nature of the operation at this facility and its location, we suggest an environmental justice analysis be conducted either by the applicant or the State. The potential impacts of the construction and operation of the facility should be evaluated against the pollution contribution of the facility to the area, and its effect to the surrounding communities. A determination of whether this contribution constitutes a disproportionate burden to the community should be included in the preliminary determination issued with the draft permit for this facility.

EPA has developed several guidance documents and web-based tools to evaluate potential environmental justice areas. Both the guidance documents and the web-based tool kit can be accessed at http://www.epa.gov/compliance/resources/policies/ej/index.html. Also, you can contact Gracy R. Danois, APS EJ Specialist, at 404-562-9119, for additional assistance with this matter.

Environmental justice analysis is designed to address the adverse impact resulting from industrial projects, especially toxic exposure, on the surrounding community in cases where the community represents low-income and minority populations. However, as shown in the impact analysis, the proposed project represents a significant reduction in the ambient lead concentrations in the area surrounding the plant. Additionally, the expansion of production will

provide additional jobs available to the surrounding community. Therefore it is our assertion that the project represents a benefit to the community and does not warrant an environmental justice analysis.

Air Quality Analysis

EPA-AQA1 Project Emissions – the following are comments on the estimated project emissions from the proposed expanded facility.

- *The emissions factors developed from stack tests at the modernized Eagan, MN facility were used to estimate the emissions from the facility after the proposed expansion. The expected actual lb/hr and tons per year (TPY) are presented as well as limiting levels. For lead, the limiting levels, which are the requested allowable rates are from 1.44 to 18 times the expected actual values. [Note the plantwide total limiting level for lead is 3.7 times the expected actual value.] Given the existing ambient lead levels and the lower new lead NAAQS, it is suggested that the difference between these emission rates be minimized.*

In response to the recent reduction in the lead NAAQS, EnviroFocus has reduced the requested allowable lead emission rates from the lead-emitting sources and revised the lead modeling accordingly. **Attachments A through E** provide more details on these changes. As shown in Table 17 of **Attachment B**, the newly proposed plantwide allowable lead emissions will be reduced to 0.96 ton/yr, which is only 17 percent above the anticipated actual emissions of 0.82 ton/yr. Analysis of the stack test results from similar sources at the Eagan facility indicates that these new limits are achievable using the proposed control equipment. Also, the revised PSD applicability analysis, **Attachment C**, shows that the plantwide allowable lead emissions will now be slightly less than the past actual lead emissions from the facility. Although this would indicate that the PSD requirements are no longer triggered for lead, EnviroFocus is not requesting relief from the BACT and air quality impact analysis requirements prescribed by the PSD regulations.

- *Except for NO_2, the Table 2-1 short-term hourly emission values appear to have been derived from the annual TPY. The difference for the NO_2 emission should be explained. The short-term rates should be included as permit limits.*

The annual emissions were estimated based on the maximum hourly emissions and the maximum hours of operation per year. In most cases, the maximum operating hours is set equal to the total number of hours in a year, 8760. However, for the emergency generator, it was assumed that the maximum operating hours would be 500 and the actual operating hours would be 200. As a consequence, since NOx is the highest emitting pollutant from the generator, the ratio of hourly to annual emissions, on a plantwide basis, will be lower for NOx.

EPA-AQA2 PM2.5 Emissions – The application does not address PM2.5 emissions. The anticipated PM2.5 emissions and NAAQS compliance should be addressed in the application. If PM10 is used as a surrogate for PM2.5 compliance assessment, both the 24-hour and revoked annual standard should be used.

For the purposes of this application PM2.5 emissions were assumed to be equal to PM10 emissions. As provided for in EPA's guidance, the PM2.5 NAAQS compliance is demonstrated using PM10 as a surrogate. As shown in the PM10 modeling results in Table 5-21 of **Attachment F**, both the 24-hour and revoked annual standards were evaluated.

EPA-AQA3 Significant Impact Area (SIA) – The SIA assessment was performed with grid spacing of 200-m resolution. Confirmation is needed that the SIA was determined from the largest distance from the facility to where all concentrations are less than the significant impact levels (SIL) (i.e., concentrations equal to the SIL are significant).

The inventory received from Florida DEP contains facilities up to 66 km from the plant site. All facilities within 66 km were included if the emissions are over 20D. Effectively, the inventory provided was based on a SIA radius of 16 km, even though the SIA modeling analysis showed a radius of 2.7 km.

EPA-AQA4 Site Boundary – Confirmation is needed that the site boundary has barriers to public access (e.g., fence) and there are no public right-of-ways through the property.

The entire property line as identified in the modeling is fenced and there are no public right-of-ways through the property.

EPA-AQA5 Inventory Other Sources – The following are comments associated with the inventories of other sources used in the cumulative NAAQS and PSD compliance modeling.

- *The annual potential emissions for other emission sources provided in Table 5-14 were indicated to be the minimum from those presented as annual potential, annual allowable and annual emissions derived from hourly potential and hourly allowable emissions. Either the maximum potential value or the annual allowable emissions should be used in this table for all pollutants.*

The annual potential or annual allowable emissions values were used in the modeling, except in those cases where they exceeded the potential or allowable hourly emission rate times 8760 hours per year of operation. In these cases, the facility could not, or would not be allowed to, reach the annual rate provided in the table.

- *The basis for the short term emission rates provided in Tables 5-15, 16, 17, and 18 should be provided. For example, the emission rates provided in the inventory for NO_2 increment assessment (Table 5-18) are less than those provide in Table 5-16 for the same unit.*

The increment modeling used the difference between the max 2006 or 2007 actual emissions and the baseline actual emissions (1988 for NOx). Therefore, the emission rates shown in Table 5-18 (increment inventory) for those units that existed pre-baseline are less than the emissions used for the NAAQS modeling (Table 5-16).

- *Because Table 5-17 PM10 inventory is for both the NAAQS and PSD increment compliance assessment, it appears that the PM10 potential emissions were used for both assessments. If this is true, the separate and different NAAQS and increment modeling summaries provided for PM10 (Table 5-21) should be explained.*

If a PM_{10} source existed before the PM10 baseline, it is not considered an increment-consuming source, and is therefore not included in the increment modeling, but only in the NAAQS modeling.

- *All sources within the SIA should be included in the modeled inventory. Review of Table 5-14 reveals that some sources within the SIA were eliminated.*

Only one source within the SIA was eliminated using the 20D rule. This facility Mantua Manufacturing has been added back into the model.

- *The existence of duplicate records and how these were treated should be explained.*

For the sources with duplicate records, the ones with the highest emissions were used in the modeling inventory.

- *Many sources identified to be included in the modeled inventory for NO_2 and PM10 (Tables 5-16, 17, and 18) were not modeled because of "incomplete source information". For example, the NO_2 NAAQS inventory (Table 5-16) had a total of 3,734.4 TPY that were not modeled. This total does not include eliminated sources located within the SIA. It appears that the number and magnitude of the emissions not modeled warrant further investigation to obtain or estimate the missing information.*

Additional efforts have been made by DEP and EPC to provide stack parameters for all sources and to confirm the status of any sources that were identified in the inventory as inactive. Additionally, all fugitive PM_{10} sources in the SIA have been added to the modeling as volume sources. Tables 5-16, 17, and 18 in **Attachment F** show the revised emissions inventories.

- *Table 5-18 containing the inventory of other NO_2 PSD increment sources should be a subset of the NAAQS inventory in Table 5-16. Table 5-18 contains two sources not in Table 5-16 (i.e., Cultrale Citrus Juices and Cemetery Management). The basis for the development of this increment inventory, and associate emissions, should be provided.*

This has been corrected.

EPA-AQA6 Results of Compliance Modeling – The following comments are associated with the compliance modeling.

- *All NO_2 compliance assessments use the 0.75 conversion factor of NO_2 to NO_X. This factor is only applicable if the modeled rate is for NO_X emissions. If NO_2 emission rates are used in the modeling, it is not appropriate to use a conversion factor.*

The emissions given in the emissions inventory are NOx emissions. Therefore, the application of the factor is appropriate.

- *Confirmation is needed that controlling concentrations, and concentrations challenging the controlling concentrations, were modeled to 100-m resolution.*

The NAAQS and increment modeling all have 50-m spacing.

EPA-AQA7 Additional Impact Assessment – The following are associated with the additional impact assessment.

- *Visibility Impacts – The visible plume impacts to visibility sensitive receptors with the SIA were not addresses. Only Class I area visibility assessments were provided.*

A review of the area within the SIA revealed that there are no visibility sensitive receptors, such as state parks or airports. This was confirmed with Debbie Nelson of FDEP.

- *Soils and Vegetation – The document "A Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils, and Animals" (EPA 450/2-81-078; December 1980) provides exposure to ambient air concentrations. These are suggested for use in this assessment.*

The pollutants that are subject to PSD review were evaluated for impact on soils and vegetation using the suggested guidance. The guidance offers a screening procedure for NO_2 and lead, but does not address particulate matter emissions as "no useable information other than that used to develop the ambient standards (NAAQS) was found in the review literature." The screening procedure for NO_2 and lead establishes ambient concentrations as screening levels (shown in Table 5.3 of the guidance), below which no further analysis is needed. Below is a table comparing the screening levels with the maximum ambient concentrations predicted by the model. As shown, no of the predicted concentrations exceeds its corresponding screening value.

Comparison of Screening Concentrations vs. Modeled Concentrations

Pollutant	Averaging Period	Screening Concentration (ug/m^3)	Predicted Concentration (ug/m^3)
NO_2	4-Hour[1]	3,760	NA
	1-Month[1]	564	NA
	Annual[1]	100	33.20
Lead	3-Month	1.5	0.13

Note 1: The annual screening value is expected to be controlling per *EPA 450/2-81-078; December 1980.*

Appendix A

Supplemental Submittal for Lead NAAQS

Attachment A
Supplemental Submittal for Reasonable Assurance of Compliance with New Lead NAAQS
Project Number: 0570057-020-AC

EnviroFocus Technologies, LLC (EnviroFocus) submitted a PSD Permit Application to the Florida Department of Environmental Protection (DEP) for an expansion of their lead-acid battery recycling facility in Tampa, Florida on August 12, 2008. The permit application included an impact analysis for lead emissions, demonstrating compliance with the lead National Ambient Air Quality Standard (NAAQS) that existed at the time. Subsequent to the application submittal, the U.S. Environmental Protection Agency (USEPA) finalized rulemaking on October 15, 2008 reducing the lead NAAQS from 1.5 ug/m^3 to 0.15 ug/m^3. The following information is being submitted as a supplement to the PSD permit application to address the new lead NAAQS.

In order to meet the new lowered lead standard, EnviroFocus evaluated a variety of options, including reducing allowable emissions and raising stack heights, to identify a set of parameters that would provide reasonable assurance that the standard would not be exceeded. After careful consideration, EnviroFocus proposes to make the following changes: 1) reduce the allowable emissions from lead-emitting stacks to a level closer to the projected actual emissions, 2) raise the battery breaker scrubber stack from 90' to 130' to provide better dispersion, and 3) increase the control efficiency for the use of wet suppression on fugitive emissions form paved surfaces. These changes are explained in more detail below.

Revised Lead Emission Limits

In the application, EnviroFocus proposed lead emission limits that were based on an analysis of Best Available Control Technology (BACT), as required by the PSD rules. These allowable emission rates were included in the dispersion modeling provided in the application. As the model demonstrated compliance with the lead NAAQS in place at that time, no attempt was made to reduce the values further. However, in light of the lowered lead NAAQS, EnviroFocus is proposing to lower the lead emission limits. The changes are summarized in the following table. The results of stack testing performed on similar sources at the Gopher Resources smelter in Eagan, Minnesota indicates that these new limits are achievable.

Summary of Proposed Lead Emission Limits

Emission Unit	Previous Limit (mg/dscm)	Revised Limit (mg/dscm)
Battery Breaker Scrubber Stack	1.0	0.80
Furnaces/ Process Stack	1.0	0.30
Refining & Furnace Fugitives/Hygiene Stack	1.0	0.20
Building Enclosure/Torit Stack	0.5	0.05

The emissions inventory that was submitted with the application has been revised to incorporate these new limits and is included as **Attachment B**.

Increased Battery Breaker Scrubber Stack

After several modeling iterations, it was determined that the lead emissions from the Battery Breaker Scrubber Stack were being influenced by building downwash. Consequently, it was determined that the stack needed to be raised from a height of 90' to 130'. Modeling performed at the new height confirmed that the impact of building downwash was diminished.

Attachment A
Supplemental Submittal for Reasonable Assurance of Compliance with New Lead NAAQS
Project Number: 0570057-020-AC

Improved Control Efficiency for Wet Suppression

The emissions estimates included in the PSD permit application included fugitive dust from paved surfaces. A control efficiency of 50% was applied to the fugitive emissions estimates to represent the application of wet suppression to the paved surfaces. This control efficiency was selected as a conservative estimate as the guidance in AP-42 does not provide documentation on the efficiency associated with this control technology. However, AP-42 includes provisions for the controlling effects of precipitation. The control efficiency factor shown In Equation (3) of Section 13.1.1.3 of AP-42 (Attachment B) shown is:

Control Efficiency = 1-1.2P/N, where

P = number of hours with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and

N = number of hours in the averaging period

The value of 0.01 inches of precipitation is used as the minimum for "measurable" precipitation. The sprinkler system proposed by EnviroFocus will apply more than this amount of water to the paved surfaces for 3 out of every 15 minutes, such that the control effects equivalent to precipitation will occur for every hour during the averaging period. Substituting a number of hours for P equal to the total number of hours available (N) into the above equation results in a control efficiency greater than 100%. This occurs because the normal number of hours of precipitation does not generally approach the total number of hours in a given time period. However, the text in the AP-42 section recognizes that fugitive emissions do not occur when the silt on the paving is wet and only occurs after the silt dries out. Recognizing that the sprinkler will keep the silt wet virtually all of the time, EnviroFocus proposes to use a control efficiency of 90% to represent the proposed use of wet suppression.

The emissions estimates used in the PSD application were adjusted for this control efficiency and are included as **Attachment B**. Also, because wet suppression was in use prior to the proposed expansion, the baseline emissions in the PSD applicability analysis were also adjusted to include 90% control efficiency. A copy of the revised PSD applicability analysis is included as **Attachment C**.

New Modeling Results

The lead model was revised to incorporate the above-described changes and rerun to produce 3-month rolling average concentrations. Copies of the modeling files are being submitted electronically to Debbie Nelson of DEP. The results of the new modeling are presented graphically in **Attachment D**. As shown in the attachment, the maximum predicted 3-month average concentration of lead in the residential neighborhood bordering the plant to the north is 0.08 ug/m^3. Additionally, the maximum 3-month average concentrations at the locations of the two neighboring lead monitors (IDs 1073 and 1066) were determined to be 0.04 ug/m^3 and 0.08 ug/m^3, respectively.

Background Concentrations

The background concentration selected for use in the original impact analysis was based on based on data from a monitor located near EnviroFocus (ID 1073), which was sited specifically to measure the impact from the existing plant. As such, most of the lead measured by this monitor is directly emitted from the plant and does not accurately reflect background concentrations. In order to determine a more reasonable representation of the background lead concentration, a review of the 2007 lead monitoring data from all lead monitors in the U.S., as

provided on EPA's website was performed. A copy of this data is presented in **Attachment E**. After eliminating data from monitors located near lead-emitting stationary sources (highlighted in yellow in **Attachment E**), the highest quarterly average was determined to be 0.06 ug/m^3, recorded in the third quarter by a monitor in East Chicago. Additionally, there were several quarterly averages of 0.05 ug/m^3 recorded by monitors in other industrial sections of major metropolitan areas. These data, representing the highest measured background concentrations are highlighted in orange in the attachment.

Additionally, data from the closest monitor to the EnviroFocus facility that is not directly impacted by the plant's emissions was identified as 0.01 ug/m^3, based on a monitor located in Pinellas County (highlighted in red in the attachment). Based on this analysis, EnviroFocus proposes to use 0.05 ug/m^3 as a conservative estimate of the background concentration in the area neighboring the plant.

Updated Lead Impact Analysis

Using the results of the revised modeling, as shown in **Attachment D**, and assuming a background concentration of 0.05 ug/m^3, the resulting predicted lead concentrations would be in compliance with the newly promulgated lead NAAQS of 0.15 ug/m^3. The table below summarizes the results of this analysis.

Lead Impact Analysis Using Revised Emissions & Background Concentration

Location	Modeled Max. 3-Month Avg. Lead Conc. (ug/m^3)	Background Lead Concentration (ug/m^3)	Highest Predicted Lead Concentration (ug/m^3)
Neighboring Residential Area	0.08	0.05	0.13
Lead Monitor 1073	0.04	0.05	0.09
Lead Monitor 1066	0.08	0.05	0.13

Appendix B

Emissions Inventory with New Limits

EMISSION INVENTORY
EnviroFocus Technologies, LLC
Tampa, Florida

Table

Table 1
Soda Ash Silo Bin Vents (3)
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Soda Ash Silo Bin Vents (3)

	Units	Stack ID			
Short-Term Activity Level 1:		Stack Height	70.00	feet	only 35' for truck-loaded silo
Long-Term Activity Level 1:		Stack Flow	650	acfm	
		Stack Diameter	16	inches	Vertical stack WITH RAIN CAP
Short-Term Activity Level 2:		Stack Temperature	amb	deg F	

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limit Level lb/hr	Limit Level tons/yr
PM10	0.005	gr/dscf	eng. Estimate	0.03	0.12	0.005	gr/dscf	BACT	0.03	0.12
VOC										
NOx										
CO										
SO2										
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 2
Plastics Bin
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: **Plastics Bin** Note: Four Bins, but only one has flow at any one time

	Units	**Stack ID**			
Short-Term Activity Level 1:		Stack Height	68.5	feet	
Long-Term Activity Level 1:		Stack Flow	1,750	acfm	
		Stack Diameter	14	inches	Vertical stack WITH RAIN CAP
Short-Term Activity Level 2:		Stack Temperature	amb	deg F	

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit**	**Units**	**Notes**	**Limit Level lb/hr**	**Limit Level tons/yr**
PM10	0.001	gr/dscf	eng. Estimate	0.02	0.07	0.001	gr/dscf	BACT	0.02	0.07
VOC										
NOx										
CO										
SO2										
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 3
Breaker Scrubber
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Breaker Scrubber

	Units	**Stack ID**		
Short-Term Activity Level 1:		Stack Height	90	feet
Long-Term Activity Level 1:		Stack Flow	25,700	acfm
		Stack Diameter	42	inches
Short-Term Activity Level 2:		Stack Temperature	amb	deg F
Long-Term Activity Level 2:				

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit**	**Units**	**Notes**	**Limit Level lb/hr**	**Limit Level tons/yr**
PM10	0.0035	gr/dscf	Eagan stack testing	0.771	3.377	0.005	gr/dscf	BACT	1.101	4.82
VOC										
NOx										
CO										
SO2	4.1	mg/dscm	Eagan stack testing	0.395	1.729	5	mg/dscm	PSD avoidance	0.481	2.108
Pb	0.71	mg/dscm	Eagan stack testing	0.068	0.299	0.8	mg/dscm	Reduced for new NAAQS	0.077	0.337
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)	0.84	mg/dscm	Eagan stack testing	0.081	0.354	5	mg/dscm	Estimated sum SO2+H2SO4	0.481	2.11
Carbon Disulfide										
Total HAPs				**0.068**	**0.299**				**0.077**	**0.337**

Table 4
Feed Dryer
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Feed Dryer

		Units	**Stack ID**			
Short-Term Activity Level 1:	10.00	MMBTU/hr	Stack Height		feet	see Combined Stack
Long-Term Activity Level 1:			Stack Flow	18,000	acfm	
			Stack Flow	15,900	scfm	
Short-Term Activity Level 2:	40.00	tons/hr	Stack Diameter		inches	
Long-Term Activity Level 2:	30.00	tons/hr	Stack Temperature	140	deg F	

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit**	**Units**	**Notes**	**Limiting Level lb/hr**	**Limiting Level tons/yr**
PM10										
VOC	0.0055	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.06	0.24				0.06	0.24
NOx	0.21	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	2.10	9.20				2.10	9.20
CO	0.084	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.84	3.68					
SO2	0.0165	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.17	0.72					
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HC										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 5
Reverb Furnace
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Reverb Furnace

		Units				
			Stack ID			
Short-Term Activity Level 1:	23.00	MMBTU/hr (oxy/air/fuel)	Stack Height		feet	see Combined Stack
Long-Term Activity Level 1:			Stack Flow	23,750	scfm	
			Stack Diameter		inches	
Short-Term Activity Level 2:	40.00	tons/hr total charged	Stack Temperature		deg F	
Long-Term Activity Level 2:	30.00	tons/hr total charged				

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10										
VOC	9	ppmv	estimated performance	1.46	6.41	10.26	ppmv	CT of 20ppmv corrected to 4%(	1.67	7.31
NOx	0.3	lb/ton	metal charged. FIRE database	12.00	52.56	0.6	lb/ton	Proposed BACT Limit	24.00	105.12
CO	0.084	lb/MMBTU	AP42 Table 1.4-2 (NG)	1.93	8.46					
SO2										
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 6
Blast Furnace
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Blast Furnace

		Units	**Stack ID**			
Short-Term Activity Level 1:	4.2	tons/hr, blast metal output	Stack Height		feet	see Combined Stack
Long-Term Activity Level 1:	3.1	tons/hr, blast metal output	Stack Flow	20,000	scfm	
			Stack Diameter		inches	
Short-Term Activity Level 2:	7.50	tons/hr, total charge	Stack Temperature		deg F	
Long-Term Activity Level 2:	6.25	tons/hr, total charge				

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit**	**Units**	**Notes**	**Limiting Level lb/hr**	**Limiting Level tons/yr**
PM10										
VOC	9	ppmv	estimated performance	1.23	5.40	10.26	ppmv	CT of 20ppmv corrected to 4%(	1.40	6.15
NOx	0.1	lb/ton	metal charged. FIRE database	0.75	3.29	0.4	lb/ton	Proposed BACT Limit	3.00	13.14
CO	45	lb/ton prod	expectation - Eagan performance	189.00	827.82					
SO2										
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 7
Process Exhaust
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Process Exhaust

		Units	**Stack ID**			
Short-Term Activity Level 1:	4.20	tons/hr Blast metal output	Stack Height		feet	see Combined Stack
Long-Term Activity Level 1:			Stack Flow	50,190	acfm	
			Stack Flow	43,751	scfm	
Short-Term Activity Level 2:	16.67	tons/hr Reverb metal output	Stack Diameter		inches	
Long-Term Activity Level 2:			Stack Temperature	148.00	deg F	

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit Level**	**Units**	**Notes**	**Limiting Level lb/hr**	**Limiting Level tons/yr**
PM10										
VOC								Reverb + Blast	3.07	13.46
NOx	NA	NA	Reverb Furnace + Blast Furnace	12.75	55.85			Reverb + Blast	27.00	118.26
CO	NA	NA	Reverb Furnace + Blast Furnace	190.93	836.28					
SO2	8	lb/ton	Est. desulf & scrubber effectiveness	166.96	731.28					
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl	0.0024	lb/ton	From East Penn, NESHAP BID	0.05	0.22				0.05	0.22
H2SO4 (not a HAP)	NA	NA	1/2 Eagan Testing (unscrubbed)	1.00	4.38			1/2 Eagan Testing (unscrubbed)	1.00	4.38
Carbon Disulfide	NA	NA	Eagan Testing, (1/2 nondetect)	0.65	2.85	0.27	lb/ton	FIRE database (blast factor)	1.13	4.97
Total HAPs				**0.700**	**3.066**				**1.184**	**5.186**

Note: The SO2 emission factor is derived from AP-42 Table 12.11-2 (80 lb/ton) and the scrubber efficiency of 90%

Table 8
Hygiene Baghouse & Stack
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Hygiene Baghouse & Stack

		Units
Short-Term Activity Level 1:	20	ton/hr refinery production
Long-Term Activity Level 1:	16.67	
Short-Term Activity Level 2:	59.7	lb/hr refinery niter usage
Short-Term Activity Level 2:	58.33	lb/hr refinery sulfur usage

Stack ID

Stack Height	130	feet
Stack Flow	72,000	acfm
Stack Flow	62,557	scfm
Stack Diameter	60	inches
Stack Temperature	150	deg F

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.005	gr/dscf		2.68	11.74	0.005	gr/dscf	BACT	2.68	11.74
VOC	15	ppmv	estimated performance	0.00	0.00	20	ppmv	MACT	0.00	0.00
NOx	0.24	lb/lb niter	derived factor	14.33	62.76	0.24	lb/lb niter	derived factor	14.33	62.76
CO										
SO2	0.133	lb/lb sulfur	derived factor	7.94	34.78	0.133	lb/lb sulfur	derived factor	7.94	34.78
Pb	0.2	mg/dscm	Eagan testing	0.05	0.205	0.2	mg/dscm	Reduced for new NAAQS	0.05	0.205
Antimony	0.0015	mg/dscm	Eagan testing	3.52E-04	1.54E-03	0.003	mg/dscm	2 x Eagan testing	7.03E-04	3.08E-03
Arsenic	0.0893	mg/dscm	Eagan testing	2.09E-02	9.17E-02	0.1786	mg/dscm	2 x Eagan testing	4.19E-02	1.83E-01
Cadmium	0.0025	mg/dscm	Eagan testing	5.86E-04	2.57E-03	0.005	mg/dscm	2 x Eagan testing	1.17E-03	5.13E-03
Mercury	1.10E-03	mg/dscm	Eagan testing	2.58E-04	1.13E-03	1.10E-03	mg/dscm	2 x Eagan testing	2.58E-04	1.13E-03
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.069**	**0.302**				**0.091**	**0.398**

Notes 95% UCL for lead is 0.80 mg/dscm (see UCL Calc's tab)

Table 9
Combined Process Stack
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Combined Process Stack

		Units	**Stack ID**				
Short-Term Activity Level 1:	4.2	tons/hr Blast production rate	Stack Height	130	feet	Moisture Content	12.00 %
Long-Term Activity Level 1:			Stack Flow	58,886	acfm		
			Stack Flow	45,024	scfm		
Short-Term Activity Level 2:			Stack Diameter	60	inches		
Long-Term Activity Level 2:			Stack Temperature	150.00	deg F		

Pollutant	**EF**	**EF Units**	**Reference**	**Expected Actual lb/hr**	**Expected Actual tons/yr**	**Limit Level**	**Units**	**Notes**	**Limiting Level lb/hr**	**Limiting Level tons/yr**
PM10	0.005	gr/dscf	estimate	1.93	8.45	0.005	gr/dscf	BACT	1.93	8.45
VOC			Dryer + Process	0.06	0.24			Dryer + Process	3.13	13.70
NOx			Dryer + Process	14.85	65.04			Dryer + Process	29.10	127.46
CO			Dryer + Process	191.77	839.96			PSD Avoidance Limit	204.67	896.45
SO2			Dryer + Process	167.13	732.01			PSD Avoidance Limit	194.33	851.17
Pb	0.263	mg/dscm	Eagan testing	0.04	0.19	0.3	mg/dscm	Reduced for new NAAQS	0.05	0.22
Antimony	0.00150	mg/dscm	Eagan testing	2.53E-04	1.11E-03	0.003	mg/dscm	2 x Eagan testing	5.06E-04	2.22E-03
Arsenic	0.08930	mg/dscm	Eagan testing	1.51E-02	6.60E-02	0.1786	mg/dscm	2 x Eagan testing	3.01E-02	1.32E-01
Cadmium	0.00250	mg/dscm	Eagan testing	4.22E-04	1.85E-03	0.005	mg/dscm	2 x Eagan testing	8.43E-04	3.69E-03
Mercury	0.0011	mg/dscm	Eagan testing	1.86E-04	8.13E-04	0.00091	lb/ton	NESHAP BID, blast factor	3.82E-03	1.67E-02
HCl				0.05	0.22				0.05	0.22
H2SO4 (not a HAP)			1/2 Eagan testing (unscrubbed)	1.00	4.38			1/2 Eagan Testing (unscrubbed	1.00	4.38
Carbon Disulfide				0.65	2.85				1.13	4.97
Total HAPs				**0.760**	**3.330**				**1.270**	**5.563**

Notes: 95% UCL for lead is 0.80 mg/dscm (see UCL Calc's tab)

Table 10
Building Ventilation Torit Stack
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Building Ventilation Torit Stack

	Units			
Short-Term Activity Level 1:		**Stack ID**		
Long-Term Activity Level 1:		Stack Height	120	feet
		Stack Flow	195,000	acfm
		Stack Diameter	96	inches
Short-Term Activity Level 2:		Stack Temperature	amb	deg F
Long-Term Activity Level 2:				

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit Level	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.0026	gr/dscf	Eagan testing	4.35	19.03	0.005	gr/dscf	BACT	8.36	36.60
VOC										
NOx										
CO										
SO2										
Pb	0.026	mg/dscm	Eagan testing	0.02	0.083	0.05	mg/dscm	Reduced for new NAAQS	0.037	0.160
Antimony	0.00062	mg/dscm	Eagan testing	4.53E-04	1.98E-03	0.00124	mg/dscm	2 x Eagan testing	9.06E-04	3.97E-03
Arsenic	0.00034	mg/dscm	Eagan testing	2.48E-04	1.09E-03	0.00068	mg/dscm	2 x Eagan testing	4.97E-04	2.18E-03
Cadmium	0.00374	mg/dscm	Eagan testing	2.73E-03	1.20E-02	0.00748	mg/dscm	2 x Eagan testing	5.46E-03	2.39E-02
Mercury	0.00009	mg/dscm	Eagan testing	6.57E-05	2.88E-04	0.00018	mg/dscm	2 x Eagan testing	1.31E-04	5.76E-04
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.022**	**0.099**				**0.044**	**0.191**

Notes: 95% UCL for lead is 0.06 mg/dscm (see UCL Calc's tab)
Arsenic rates based upon non-detect level in Eagan testing

Table 11
Refinery Combustion
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Refinery Combustion

Emissions are for TOTAL of 10 stacks
Stack parameters are for EACH of 10 stacks

		Units	**Stack ID**			
Short-Term Activity Level 1:	40	MMBTU/hr (oxyfuel)	Stack Height		feet	set per Barr drawings
Long-Term Activity Level 1:			Stack Flow	500	acfm	
			Stack Diameter	12	inches	
Short-Term Activity Level 2:			Stack Temperature	450	deg F	
Long-Term Activity Level 2:						

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.0076	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.30	1.33				0.30	1.33
VOC	0.0055	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.22	0.96				0.22	0.96
NOx	0.05	lb/MMBTU	AP42 Table 1.4-2 (NG)-low NOx	2.00	8.76				2.00	8.76
CO	0.084	lb/MMBTU	AP42 Table 1.4-2 (NG)	3.36	14.72				3.36	14.72
SO2	0.0165	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.66	2.89				0.66	2.89
Pb	5E-07	lb/MMBTU	AP42 Table 1.4-2 (NG)	2.00E-05	8.76E-05				2.00E-05	8.76E-05
Antimony										
Arsenic										
cadmium										
Mercury	2.60E-07	lb/MMBTU	AP42 Table 1.4-4 (NG)	1.04E-05	4.56E-05				1.04E-05	4.56E-05
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 12
Plastics Plant
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Plastics Plant

		Units
Short-Term Activity Level 1:	3,500	lb/hr
Long-Term Activity Level 1:	24,000,000	lb/yr
Short-Term Activity Level 2:		
Long-Term Activity Level 2:		

Stack ID

Stack Height	feet	Volume source
Stack Flow	acfm	
Stack Diameter	inches	
Stack Temperature	deg F	

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit Level	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	34.5	lb/MMlb	A&WMA Journal	0.12	0.53	34.5	lb/MMlb	A&WMA Journal	0.12	0.53
VOC	80.3	lb/MMlb	A&WMA Journal	0.28	1.23	80.3	lb/MMlb	A&WMA Journal	0.28	1.23
NOx										
CO										
SO2										
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Source article for emission factors is attached.

Table 13
Propane Vaporizer
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: **Propane Vaporizer**

		Units
Short-Term Activity Level 1:	1.2	MMBTU/hr
Long-Term Activity Level 1:		
Short-Term Activity Level 2:		
Long-Term Activity Level 2:		

Stack ID

Stack Height	9	feet	
Stack Flow	500	acfm	
Stack Diameter	8	inches	(capped)
Stack Temperature	600	deg F	est

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.0066	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.01	0.03				0.01	0.03
VOC	0.0055	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.01	0.03				0.01	0.03
NOx	0.21	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.25	1.10				0.25	1.10
CO	0.0352	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.04	0.19				0.04	0.19
SO2	0.0165	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.02	0.09				0.02	0.09
Pb				0.00	0.00				0.00	0.00
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 14
Emergency Generator
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Emergency Generator

		Units	Stack ID			
Short-Term Activity Level 1:	762	HP (500 kW electrical output)	Stack Height	11.2	feet	per Barr drawings
Long-Term Activity Level 1:			Stack Flow	3,845	acfm	
			Stack Diameter	8	inches	
Short-Term Activity Level 2:			Stack Temperature	941	deg F	
Long-Term Activity Level 2:						

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.03	lb/hr	Vendor Specifications	0.03	0.00				0.03	0.01
VOC	0.01	lb/hr	Vendor Specifications	0.01	0.00				0.01	0.00
NOx	9.63	lb/hr	Vendor Specifications	9.63	0.96				9.63	2.41
CO	0.67	lb/hr	Vendor Specifications	0.67	0.07				0.67	0.17
SO2	0.002	lb/Hp-hr	AP-42, Table 3.3-1	1.52	0.15				1.52	0.38
Pb										
Antimony										
Arsenic										
Cadmium										
Mercury										
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Note: Assumed maximum hours of operation = 500

Table 15
Slurry Heaters
EnviroFocus Technologies, LLC
Tampa, Florida

Process Unit: Soda Ash Slurry Heaters

		Units	**Stack ID**			
Short-Term Activity Level 1:	1.5	MMBTU/hr (2 @ 0.75 mmBtu each)	Stack Height	11.2	feet	2 Horizontal stacks
Long-Term Activity Level 1:			Stack Flow	800	acfm	each
			Stack Diameter	8	inches	each
Short-Term Activity Level 2:			Stack Temperature	300	deg F	
Long-Term Activity Level 2:						

Pollutant	EF	EF Units	Reference	Expected Actual lb/hr	Expected Actual tons/yr	Limit	Units	Notes	Limiting Level lb/hr	Limiting Level tons/yr
PM10	0.0076	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.01	0.05				0.01	0.05
VOC	0.0055	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.01	0.04				0.01	0.04
NOx	0.21	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.32	1.38				0.32	1.38
CO	0.084	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.13	0.55				0.13	0.55
SO2	0.0165	lb/MMBTU	AP42 Table 1.5-1 (C3H8)	0.02	0.11				0.02	0.11
Pb	5E-07	lb/MMBTU	AP42 Table 1.4-2 (NG)	0.00	0.00				0.00	0.00
Antimony										
Arsenic										
cadmium										
Mercury	2.60E-07	lb/MMBTU	AP42 Table 1.4-4 (NG)	3.90E-07	1.71E-06				3.90E-07	1.71E-06
HCl										
H2SO4 (not a HAP)										
Carbon Disulfide										
Total HAPs				**0.000**	**0.000**				**0.000**	**0.000**

Table 16
Roadway Fugitives
EnviroFocus Technologies, LLC
Tampa, Florida

Source ID **Roadway Fugitives**

Collection of Volume Sources
Paved Roads

AP-42 Section 13.2.1

$$E = (k(sL/2)^{0.65} \times (W/3)^{1.5} - C) * CNTRL$$

where:

E = emission factor (lb/VMT)
k = particle size multiplier (lb/VMT, 0.016 for PM10, 0.082 for PM)
sL = road surface silt loading (g/m^2) Surface Silt Loading (sL) from direct measurements conducted at Gopher Resource Corporation, Eagan, Minnesota, October 2006
W = average weight of vehicles traveling the road (tons)
VMT = vehicle miles traveled
C = Emission factor for 1980's vehicle exhaust, brake wear, & tira waar (0.00047 lb/VMT)
CNTRL = 0.1 for 90% effectiveness of wet suppression emission control (efficiency per Secondary Leed NESHAP B.I.D.)

NOTE: Shipping occurs between hours of 6 a.m. and 10 p.m.. Emissions assumed to occur over this 16 hour period daily

Segment	Distance (ft)
1	780
2	650
3	1030
4	1090
5	980
6	300
7	690
8	300
9	250
10	730
11	740
12	750
13	570
14	670
15	600
16	600

Note: **In this table, the ton/year emission rates are based upon average daily traffic volumes**
Use these average daily rates in modeling lead (Pb) for the quarterly averaging period and PM10 for the annual averaging period

Table 16
Roadway Fugitives
EnviroFocus Technologies, LLC
Tampa, Florida

Vehicle Traffic

	Total Trucks	Shipping Days	Daily Trucks	Empty Weight	Load Weight	Loaded Weight
Inbound raw materials	12775	365	35	16	20	36
Outgoing product lead shipments	8030	365	22	16	20	36
Other large trucks (blast fluxes)	730	365	2	16	20	36
Other large trucks (refining fluxes)	730	365	2	16	20	36
Plastics shipments	365	365	1	16	20	36
Caustic Soda deliveries	730	365	2	16	17	33
Slag rolloffs, internal	1825	365	5	10	20	30
slag/ scrap metal offsite shipping	1825	365	5	16	20	36
Loaders	5840	365	16	12	3	15
Miscellaneous deliveries	1460	365	4	5	2	7

Note: 90 percent of incoming raw materials directly to dock, not warehouse

Note: Antimony assumed at 2% of lead emissions, arsenic at 1% of lead emissions

Description	Distance (ft)	Segment(s)	Trips/Year	W (tons)	sL	VMT (miles)	E (PM10)	E (TSP)	E (Pb)	E (Sb)	E (As)	PM10 (tons)	TSP (tons)	Pb (tons)	Sb (tons)	As (tons)
Incoming Batteries Warehouse (loaded)	780	1	1,278	36.0	1.48	189	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	5.16E-03	2.64E-02	1.41E-03	2.83E-05	1.41E-05
Incoming Batteries Warehouse (unloaded)	300	8	1,278	16.0	1.48	73	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	5.86E-04	3.01E-03	1.61E-04	3.22E-06	1.61E-06
Incoming Batteries Direct (loaded)	650	2	11,498	36.0	1.48	1,415	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	3.87E-02	1.98E-01	1.06E-02	2.12E-04	1.06E-04
Incoming Batteries Direct (unloaded)	250	9	11,498	16.0	1.48	544	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	4.40E-03	2.26E-02	1.21E-03	2.42E-05	1.21E-05
Outgoing Lead (unloaded)	1030	3	8,030	16.0	1.48	1,566	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	1.27E-02	6.50E-02	3.48E-03	6.96E-05	3.48E-05
Outgoing Lead (loaded)	730	10	8,030	36.0	1.48	1,110	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	3.03E-02	1.56E-01	8.32E-03	1.66E-04	8.32E-05
Plastics outgoing (loaded)	300	8	365	36.0	1.48	21	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	5.67E-04	2.91E-03	1.55E-04	3.11E-06	1.55E-06
Plastics outgoing (unloaded)	780	1	365	16.0	1.48	54	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	4.36E-04	2.24E-03	1.20E-04	2.39E-06	1.20E-06
Other Large Trucks, blast, bins (loaded)	1090	4	730	36.0	1.48	151	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	4.12E-03	2.11E-02	1.13E-03	2.26E-05	1.13E-05
Other Large Trucks blast, bins (unloaded)	740	11	730	16.0	1.48	102	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	8.27E-04	4.25E-03	2.27E-04	4.54E-06	2.27E-06
Other Large Trucks, refining fluxes (loaded)	1030	3	730	36.0	1.48	142	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	3.89E-03	2.00E-02	1.07E-03	2.13E-05	1.07E-05
Other Large Trucks, refining fluxes (unloaded)	730	10	730	16.0	1.48	101	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	8.15E-04	4.19E-03	2.24E-04	4.48E-06	2.24E-06
Slag/ scrap metal offsite shipping (loaded)	750	12	1,825	36.0	1.48	259	5.5E-02	2.8E-01	1.5E-02	3.0E-04	1.5E-04	7.08E-03	3.63E-02	1.94E-03	3.89E-05	1.94E-05
Slag/ scrap metal offsite shipping (unloaded)	980	5	1,825	16.0	1.48	339	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	2.74E-03	1.41E-02	7.52E-04	1.50E-05	7.52E-06
Caustic Soda (loaded)	300	6	730	33.0	1.48	41	4.8E-02	2.5E-01	1.3E-02	2.6E-04	1.3E-04	9.94E-04	5.10E-03	2.73E-04	5.46E-06	2.73E-06
Caustic Soda (unloaded)	570	13	730	16.0	1.48	79	1.6E-02	8.3E-02	4.4E-03	8.9E-05	4.4E-05	6.37E-04	3.27E-03	1.75E-04	3.50E-06	1.75E-06
Miscellaneous (loaded)	1030	3	1,460	7.0	1.48	285	4.6E-03	2.4E-02	1.3E-03	2.6E-05	1.3E-05	6.61E-04	3.42E-03	1.83E-04	3.65E-06	1.83E-06
Miscellaneous (unloaded)	730	10	1,460	5.0	1.48	202	2.8E-03	1.4E-02	7.7E-04	1.5E-05	7.7E-06	2.81E-04	1.46E-03	7.81E-05	1.56E-06	7.81E-07
Loaders (loaded)	690	7	5,840	15.0	1.48	763	1.5E-02	7.5E-02	4.0E-03	8.1E-05	4.0E-05	5.59E-03	2.87E-02	1.54E-03	3.08E-05	1.54E-05
Loaders (unloaded)	670	14	5,840	12.0	1.48	741	1.0E-02	5.4E-02	2.9E-03	5.8E-05	2.9E-05	3.88E-03	2.00E-02	1.07E-03	2.14E-05	1.07E-05
Slag Rolloffs (loaded)	600	16	1,825	30.0	1.48	207	4.2E-02	2.1E-01	1.1E-02	2.3E-04	1.1E-04	4.31E-03	2.21E-02	1.18E-03	2.37E-05	1.18E-05
Slag Rolloffs (unloaded)	600	15	1,825	10.0	1.48	207	8.0E-03	4.1E-02	2.2E-03	4.4E-05	2.2E-05	8.25E-04	4.25E-03	2.27E-04	4.55E-06	2.27E-06
												1.29E-01	6.64E-01	3.55E-02	7.11E-04	3.55E-04

Table 16
Roadway Fugitives
EnviroFocus Technologies, LLC
Tampa, Florida

PM10 Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	5.16E-03															
Incoming Batteries Warehouse (unloaded)								5.86E-04								
Incoming Batteries Direct (loaded)		3.87E-02														
Incoming Batteries Direct (unloaded)									4.4E-03							
Outgoing Lead (unloaded)			1.27E-02													
Outgoing Lead (loaded)										3.0E-02						
Plastics outgoing (loaded)								5.67E-04								
Plastics outgoing (unloaded)	4.36E-04															
Other Large Trucks, blast, bins (loaded)				4.12E-03												
Other Large Trucks blast, bins (unloaded)											8.3E-04					
Other Large Trucks, refining fluxes (loaded)			3.89E-03													
Other Large Trucks, refining fluxes (unloaded)										8.2E-04						
Slag/ scrap metal offsite shipping (loaded)												7.1E-03				
Slag/ scrap metal offsite shipping (unloaded)					2.74E-03											
Caustic Soda (loaded)						9.94E-04										
Caustic Soda (unloaded)													6.4E-04			
Miscellaneous (loaded)			6.61E-04													
Miscellaneous (unloaded)										2.6E-04						
Loaders (loaded)							5.59E-03									
Loaders (unloaded)														3.88E-03		
Slag Rolloffs (loaded)																4.31E-03
Slag Rolloffs (unloaded)															8.25E-04	

PM10, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5.59E-03	3.87E-02	1.72E-02	4.12E-03	2.74E-03	9.94E-04	5.59E-03	1.15E-03	4.40E-03	3.14E-02	8.27E-04	7.08E-03	6.37E-04	3.88E-03	8.25E-04	4.31E-03

Pb Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	1.41E-03															
Incoming Batteries Warehouse (unloaded)								1.61E-04								
Incoming Batteries Direct (loaded)		1.06E-02														
Incoming Batteries Direct (unloaded)									1.2E-03							
Outgoing Lead (unloaded)			3.48E-03													
Outgoing Lead (loaded)										8.3E-03						
Plastics outgoing (loaded)								1.55E-04								
Plastics outgoing (unloaded)	1.20E-04															
Other Large Trucks, blast, bins (loaded)				1.13E-03												
Other Large Trucks blast, bins (unloaded)											2.3E-04					
Other Large Trucks, refining fluxes (loaded)			1.07E-03													
Other Large Trucks, refining fluxes (unloaded)										2.2E-04						
Slag/ scrap metal offsite shipping (loaded)												1.9E-03				
Slag/ scrap metal offsite shipping (unloaded)					7.52E-04											
Caustic Soda (loaded)						2.73E-04										
Caustic Soda (unloaded)													1.7E-04			
Miscellaneous (loaded)			1.83E-04													
Miscellaneous (unloaded)										7.8E-05						
Loaders (loaded)							1.54E-03									
Loaders (unloaded)														1.07E-03		
Slag Rolloffs (loaded)																1.18E-03
Slag Rolloffs (unloaded)															2.27E-04	

Pb, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.53E-03	1.06E-02	4.73E-03	1.13E-03	7.52E-04	2.73E-04	1.54E-03	3.17E-04	1.21E-03	8.82E-03	2.27E-04	1.94E-03	1.75E-04	1.07E-03	2.27E-04	1.18E-03

Table 16
Roadway Fugitives
EnviroFocus Technologies, LLC
Tampa, Florida

Sb Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	2.83E-05															
Incoming Batteries Warehouse (unloaded)								3.22E-06								
Incoming Batteries Direct (loaded)		2.12E-04														
Incoming Batteries Direct (unloaded)									2.4E-05							
Outgoing Lead (unloaded)			6.96E-05													
Outgoing Lead (loaded)										1.7E-04						
Plastics outgoing (loaded)								3.11E-06								
Plastics outgoing (unloaded)	2.39E-06															
Other Large Trucks, blast, bins (loaded)				2.26E-05												
Other Large Trucks blast, bins (unloaded)											4.5E-06					
Other Large Trucks, refining fluxes (loaded)			2.13E-05													
Other Large Trucks, refining fluxes (unloaded)										4.5E-06						
Slag/ scrap metal offsite shipping (loaded)												3.9E-05				
Slag/ scrap metal offsite shipping (unloaded)					1.50E-05											
Caustic Soda (loaded)						5.46E-06										
Caustic Soda (unloaded)													3.5E-06			
Miscellaneous (loaded)			3.65E-06													
Miscellaneous (unloaded)										1.6E-06						
Loaders (loaded)							3.08E-05									
Loaders (unloaded)														2.14E-05		
Slag Rolloffs (loaded)																2.37E-05
Slag Rolloffs (unloaded)															4.55E-06	

Sb, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3.07E-05	2.12E-04	9.46E-05	2.26E-05	1.50E-05	5.46E-06	3.08E-05	6.33E-06	2.42E-05	1.72E-04	4.54E-06	3.89E-05	3.50E-06	2.14E-05	4.55E-06	2.37E-05

As Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	1.41E-05															
Incoming Batteries Warehouse (unloaded)								1.61E-06								
Incoming Batteries Direct (loaded)		1.06E-04														
Incoming Batteries Direct (unloaded)									1.2E-05							
Outgoing Lead (unloaded)			3.48E-05													
Outgoing Lead (loaded)										8.3E-05						
Plastics outgoing (loaded)								1.55E-06								
Plastics outgoing (unloaded)	1.20E-06															
Other Large Trucks, blast, bins (loaded)				1.13E-05												
Other Large Trucks blast, bins (unloaded)											2.3E-06					
Other Large Trucks, refining fluxes (loaded)			1.07E-05													
Other Large Trucks, refining fluxes (unloaded)										2.2E-06						
Slag/ scrap metal offsite shipping (loaded)												1.9E-05				
Slag/ scrap metal offsite shipping (unloaded)					7.52E-06											
Caustic Soda (loaded)						2.73E-06										
Caustic Soda (unloaded)													1.7E-06			
Miscellaneous (loaded)			1.83E-06													
Miscellaneous (unloaded)										7.6E-07						
Loaders (loaded)							1.54E-05									
Loaders (unloaded)														1.07E-05		
Slag Rolloffs (loaded)																1.18E-05
Slag Rolloffs (unloaded)															2.27E-06	

As, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.53E-05	1.06E-04	4.73E-05	1.13E-05	7.52E-06	2.73E-06	1.54E-05	3.17E-06	1.21E-05	8.62E-05	2.27E-06	1.94E-05	1.75E-06	1.07E-05	2.27E-06	1.18E-05

Totals

Plantwide Emission Rates:

PM10 (tons)	TSP (tons)	Pb (tons)	Sb (tons)	As (tons)
0.129	0.663	0.036	7.11E-04	3.55E-04

Table 17
Plantwide Totals
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Expected Actual		Limiting Levels	
	lb/hr	tons/yr	lb/hr	tons/yr
PM10	10.33	45.11	14.67	64.14
VOC	0.58	2.50	3.65	15.96
NOx	41.38	140.01	55.63	203.87
CO	195.97	855.48	208.87	912.08
SO2	177.69	771.75	204.98	891.52
Pb	0.19	0.82	0.22	0.96
Antimony	0.001	0.005	0.002	0.009
Arsenic	0.036	0.159	0.072	0.317
Cadmium	0.004	0.016	0.007	0.033
Mercury	0.001	0.002	0.004	0.018
HCl	0.05	0.22	0.05	0.22
H2SO4 (not a HAP)	1.08	4.73	1.48	6.49
Carbon Disulfide	0.65	2.85	1.13	4.97
Total HAPs	0.92	4.03	1.48	6.49

Table 18
Peak Daily Roadway Fugitives
EnviroFocus Technologies, LLC
Tampa, Florida

Source ID **Peak Daily Roadway Fugitives**

Collection of Volume Sources
Paved Roads

AP-42 Section 13.2.1

$$E = (k(sL/2)^{0.65} \times (W/3)^{1.5} - C) * CNTRL$$

where:

E = emission factor (lb/VMT)
k = particle size multiplier (lb/VMT, 0 016 for PM10, 0.082 for PM)
sL = road surface silt loading (g/m^2) Surface Silt Loading (sL) from direct measurements conducted at Gopher Resource Corporation, Eagan, Minnesota, October 2006
W = averega weight of vehicles traveling the road (tons)
VMT = vehicle miles traveled
C = Emission factor for 1980's vehicle exhaust, brake wear, & tire wear (0.00047 lb/VMT)
CNTRL = 0.5 for 50% effectiveness of wet suppression emission control (efficiency per Secondary Lead NESHAP B.I.D.)

NOTE: Shipping occurs between hours of 6 a.m. and 10 p.m.. Emissions assumed to occur over this 16 hour period daily

Segment	Distance (ft)
1	780
2	650
3	1030
4	1090
5	980
6	300
7	690
8	300
9	250
10	730
11	740
12	750
13	570
14	670
15	600
16	600

Note: **In this table, the ton/year emission rates are based upon peak daily traffic volumes**
Use these peak daily rates in modeling PM10 for the 24-hour averaging period

Peak daily traffic volumes are 1.15 x average shipping day traffic volumes
This is 1.15 x (7/5) the annualized average traffic volumes modeled for the long-term averaging periods = 1.6 x

Vehicle Traffic

	Total Trucks	Shipping Days	Daily Trucks	Empty Weight	Load Weight	Loaded Weight
Inbound raw materials	20440	365	56	18	20	38
Outgoing product lead shipments	13140	365	36	18	20	38
Other large trucks (blast fluxes)	1095	365	3	18	20	38
Other large trucks (refining fluxes)	1095	365	3	18	20	38
Plastics shipments	730	365	2	18	20	38
Caustic Soda deliveries	1460	365	4	18	17	33
Slag rolloffs, internal	2920	365	8	10	20	30
slag/ scrap metal offsite shipping	2920	365	8	18	20	38
Loaders	9490	365	26	12	3	15
Miscellaneous deliveries	2920	365	8	5	2	7

Note. 90 percent of incoming raw materials directly to dock, not warehouse

Note. Antimony assumed at 2% of lead emissions, arsenic at 1% of lead emissions

Description	Distance (ft)	Segment(s)	Trips/Year	W (tons)	sL	VMT (miles)	E (PM10)	E (TSP)	E (Pb)	E (Sb)	E (As)	PM10 (tons)	TSP (tons)	Pb (tons)	Sb (tons)	As (tons)
Incoming Batteries Warehouse (loaded)	780	1	2,044	36.0	1.48	302	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	4.12E-02	2.12E-01	1.13E-02	2.26E-04	1.13E-04
Incoming Batteries Warehouse (unloaded)	300	8	2,044	16.0	1.48	116	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	4.69E-03	2.41E-02	1.28E-03	2.56E-05	1.28E-05
Incoming Batteries Direct (loaded)	650	2	18,396	36.0	1.48	2,265	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	3.09E-01	1.59E+00	8.49E-02	1.70E-03	8.49E-04
Incoming Batteries Direct (unloaded)	250	9	18,396	16.0	1.48	871	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	3.52E-02	1.81E-01	9.67E-03	1.93E-04	9.67E-05
Outgoing Lead (unloaded)	1030	3	13,140	16.0	1.48	2,563	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	1.04E-01	5.32E-01	2.85E-02	5.69E-04	2.85E-04
Outgoing Lead (loaded)	730	10	13,140	36.0	1.48	1,817	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	2.48E-01	1.27E+00	6.81E-02	1.36E-03	6.81E-04
Plastics outgoing (loaded)	300	8	730	36.0	1.48	41	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	5.67E-03	2.91E-02	1.55E-03	3.11E-05	1.55E-05
Plastics outgoing (unloaded)	780	1	730	16.0	1.48	108	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	4.36E-03	2.24E-02	1.20E-03	2.39E-05	1.20E-05
Other Large Trucks, blast, bins (loaded)	1090	4	1,095	36.0	1.48	226	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	3.09E-02	1.58E-01	8.47E-03	1.69E-04	8.47E-05
Other Large Trucks blast, bins (unloaded)	740	11	1,095	16.0	1.48	153	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	6.20E-03	3.18E-02	1.70E-03	3.41E-05	1.70E-05
Other Large Trucks, refining fluxes (loaded)	1030	3	1095	36.0	1.48	214	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	2.92E-02	1.50E-01	8.01E-03	1.60E-04	8.01E-05
Other Large Trucks, refining fluxes (unloaded)	730	10	1,095	16.0	1.48	151	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	6.12E-03	3.14E-02	1.68E-03	3.36E-05	1.68E-05
Slag/ scrap metal offsite shipping (loaded)	750	12	2,920	36.0	1.48	415	2.7E-01	1.4E+00	7.5E-02	1.5E-03	7.5E-04	5.67E-02	2.91E-01	1.55E-02	3.11E-04	1.55E-04
Slag/ scrap metal offsite shipping (unloaded)	980	5	2,920	16.0	1.48	542	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	2.19E-02	1.12E-01	6.02E-03	1.20E-04	6.02E-05
Caustic Soda (loaded)	300	6	1,460	33.0	1.48	83	2.4E-01	1.2E+00	6.6E-02	1.3E-03	6.6E-04	9.94E-03	5.10E-02	2.73E-03	5.46E-05	2.73E-05
Caustic Soda (unloaded)	570	13	1,460	16.0	1.48	158	8.1E-02	4.1E-01	2.2E-02	4.4E-04	2.2E-04	6.37E-03	3.27E-02	1.75E-03	3.50E-05	1.75E-05
Miscellaneous (loaded)	1030	3	2,920	7.0	1.48	570	2.3E-02	1.2E-01	6.4E-03	1.3E-04	6.4E-05	6.61E-03	3.42E-02	1.83E-03	3.65E-05	1.83E-05
Miscellaneous (unloaded)	730	10	2,920	5.0	1.48	404	1.4E-02	7.2E-02	3.9E-03	7.7E-05	3.9E-05	2.81E-03	1.46E-02	7.81E-04	1.56E-05	7.81E-06
Loaders (loaded)	690	7	9,490	15.0	1.48	1,240	7.3E-02	3.8E-01	2.0E-02	4.0E-04	2.0E-04	4.55E-02	2.34E-01	1.25E-02	2.50E-04	1.25E-04
Loaders (unloaded)	670	14	9,490	12.0	1.48	1,204	5.2E-02	2.7E-01	1.4E-02	2.9E-04	1.4E-04	3.15E-02	1.62E-01	8.68E-03	1.74E-04	8.68E-05
Slag Rolloffs (loaded)	600	16	2,920	30.0	1.48	332	2.1E-01	1.1E+00	5.7E-02	1.1E-03	5.7E-04	3.45E-02	1.77E-01	9.46E-03	1.89E-04	9.46E-05
Slag Rolloffs (unloaded)	600	15	2,920	10.0	1.48	332	4.0E-02	2.0E-01	1.1E-02	2.2E-04	1.1E-04	6.60E-03	3.40E-02	1.82E-03	3.64E-05	1.82E-05
												1.05E+00	5.37E+00	2.87E-01	5.75E-03	2.87E-03

PM10 Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	4.12E-02															
Incoming Batteries Warehouse (unloaded)								4.69E-03								
Incoming Batteries Direct (loaded)		3.09E-01														
Incoming Batteries Direct (unloaded)									3.5E-02							
Outgoing Lead (unloaded)			1.04E-01													
Outgoing Lead (loaded)										2.5E-01						
Plastics outgoing (loaded)								5.67E-03								
Plastics outgoing (unloaded)	4.36E-03															
Other Large Trucks, blast, bins (loaded)				3.09E-02												
Other Large Trucks blast, bins (unloaded)											6.2E-03					
Other Large Trucks, refining fluxes (loaded)			2.92E-02													
Other Large Trucks, refining fluxes (unloaded)										6.1E-03						
Slag/ scrap metal offsite shipping (loaded)												5.7E-02				
Slag/ scrap metal offsite shipping (unloaded)					2.19E-02											
Caustic Soda (loaded)						9.94E-03										
Caustic Soda (unloaded)													6.4E-03			
Miscellaneous (loaded)			6.61E-03													
Miscellaneous (unloaded)										2.8E-03						
Loaders (loaded)							4.55E-02									
Loaders (unloaded)														3.15E-02		
Slag Rolloffs (loaded)																3.45E-02
Slag Rolloffs (unloaded)															6.60E-03	

PM10, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4.56E-02	3.09E-01	1.39E-01	3.09E-02	2.19E-02	9.94E-03	4.55E-02	1.04E-02	3.52E-02	2.57E-01	6.20E-03	5.67E-02	6.37E-03	3.15E-02	6.60E-03	3.45E-02	1.047

Pb Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	1.13E-02															
Incoming Batteries Warehouse (unloaded)								1.29E-03								
Incoming Batteries Direct (loaded)		8.49E-02														
Incoming Batteries Direct (unloaded)									9.7E-03							
Outgoing Lead (unloaded)			2.85E-02													
Outgoing Lead (loaded)										6.8E-02						
Plastics outgoing (loaded)								1.55E-03								
Plastics outgoing (unloaded)	1.20E-03															
Other Large Trucks, blast, bins (loaded)				8.47E-03												
Other Large Trucks blast, bins (unloaded)											1.7E-03					
Other Large Trucks, refining fluxes (loaded)			8.01E-03													
Other Large Trucks, refining fluxes (unloaded)										1.7E-03						
Slag/ scrap metal offsite shipping (loaded)												1.6E-02				
Slag/ scrap metal offsite shipping (unloaded)					6.02E-03											
Caustic Soda (loaded)						2.73E-03										
Caustic Soda (unloaded)													1.7E-03			
Miscellaneous (loaded)			1.83E-03													
Miscellaneous (unloaded)										7.8E-04						
Loaders (loaded)							1.25E-02									
Loaders (unloaded)														8.68E-03		
Slag Rolloffs (loaded)																9.46E-03
Slag Rolloffs (unloaded)															1.82E-03	

Pb, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1.25E-02	8.49E-02	3.83E-02	8.47E-03	6.02E-03	2.73E-03	1.25E-02	2.84E-03	9.67E-03	7.08E-02	1.70E-03	1.55E-02	1.75E-03	8.68E-03	1.82E-03	9.46E-03	0.287

Sb Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	2.26E-04															
Incoming Batteries Warehouse (unloaded)								2.58E-05								
Incoming Batteries Direct (loaded)		1.70E-03														
Incoming Batteries Direct (unloaded)									1.9E-04							
Outgoing Lead (unloaded)			5.69E-04													
Outgoing Lead (loaded)										1.4E-03						
Plastics outgoing (loaded)								3.11E-05								
Plastics outgoing (unloaded)	2.39E-05															
Other Large Trucks, blast, bins (loaded)				1.69E-04												
Other Large Trucks blast, bins (unloaded)											3.4E-05					
Other Large Trucks, refining fluxes (loaded)			1.60E-04													
Other Large Trucks, refining fluxes (unloaded)										3.4E-05						
Slag/ scrap metal offsite shipping (loaded)												3.1E-04				
Slag/ scrap metal offsite shipping (unloaded)					1.20E-04											
Caustic Soda (loaded)						5.46E-05										
Caustic Soda (unloaded)													3.5E-05			
Miscellaneous (loaded)			3.65E-05													
Miscellaneous (unloaded)										1.6E-05						
Loaders (loaded)							2.50E-04									
Loaders (unloaded)														1.74E-04		
Slag Rolloffs (loaded)																1.89E-04
Slag Rolloffs (unloaded)															3.64E-05	

Sb, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2.50E-04	1.70E-03	7.66E-04	1.69E-04	1.20E-04	5.46E-05	2.50E-04	5.69E-05	1.93E-04	1.41E-03	3.41E-05	3.11E-04	3.50E-05	1.74E-04	3.64E-05	1.89E-04	5.75E-03

As Emissions on Segments (tons per year):

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Batteries Warehouse (loaded)	1.13E-04															
Incoming Batteries Warehouse (unloaded)								1.29E-05								
Incoming Batteries Direct (loaded)		8.49E-04														
Incoming Batteries Direct (unloaded)									9.7E-05							
Outgoing Lead (unloaded)			2.85E-04													
Outgoing Lead (loaded)										6.8E-04						
Plastics outgoing (loaded)								1.55E-05								
Plastics outgoing (unloaded)	1.20E-05															
Other Large Trucks, blast, bins (loaded)				8.47E-05												
Other Large Trucks blast, bins (unloaded)											1.7E-05					
Other Large Trucks, refining fluxes (loaded)			8.01E-05													
Other Large Trucks, refining fluxes (unloaded)										1.7E-05						
Slag/ scrap metal offsite shipping (loaded)												1.6E-04				
Slag/ scrap metal offsite shipping (unloaded)					6.02E-05											
Caustic Soda (loaded)						2.73E-05										
Caustic Soda (unloaded)													1.7E-05			
Miscellaneous (loaded)			1.83E-05													
Miscellaneous (unloaded)										7.8E-06						
Loaders (loaded)							1.25E-04									
Loaders (unloaded)														8.68E-05		
Slag Rolloffs (loaded)																9.46E-05
Slag Rolloffs (unloaded)															1.82E-05	

As, Segment totals (tons/year):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1.25E-04	8.49E-04	3.83E-04	8.47E-05	6.02E-05	2.73E-05	1.25E-04	2.84E-05	9.67E-05	7.06E-04	1.70E-05	1.55E-04	1.75E-05	8.68E-05	1.82E-05	9.46E-05	2.87E-03

Totals

Plantwide Emission Rates:

PM10 (tons)	TSP (tons)	Pb (tons)	Sb (tons)	As (tons)
1.047	5.366	0.287	5.75E-03	2.87E-03

Stack Test Results History and Statistics - Gopher Resource Corporation, Eagan, Minnesota

Main Stack - Lead Results

Year	Date	Flow acfm	Flow scfm	Temp deg F	PWR tons/hr	Pb Conc mg/dscm	Pb Rate lb/hr	Pb EF lb/ton	log transformed data			Pb front lb/hr	Pb back lbhr
2007	6-Nov	144,900	106,300	159		0.0598	0.0238	#DIV/0!	-2.82E+00	-3 74E+00	#DIV/0!	0.0211	0.0027
2007	11-Sep	135,900	106,700	152	23.08	0.047	0.019	8.23E-04	-3 06E+00	-3.96E+00	-7.10E+00	0.018	0.0007
2006	27-Jun	136,900	102,300	181	23.45	0.16	0.06	2.56E-03	-1.83E+00	-2.81E+00	-5.97E+00	0.013	0.0468
2005	11-May	132,000	105,200	146	23.5	0.9	0.358	1.52E-02	-1.05E-01	-1.03E+00	-4.18E+00	0.355	0.0027
2004	14-Apr	144,700	106,200	195	24.3	0.11	0.046	1.89E-03	-2.21E+00	-3.08E+00	-6.27E+00	0.045	0.0007
2002	26-Jun	143,000	101,200	211	25 35	0 3	0.114	4.50E-03	-1 20E+00	-2 17E+00	-5 40E+00	0 113	0.001
					Mean	0 263	0.103	#DIV/0!					
					Sigma	0 325	0.129	#DIV/0!					
					Mean+2.33sigma	**1.021**	**0.405**	**#DIV/0!**	**99% probability of not exceeding**				
					Mean+2sigma	0.913	0 362	#DIV/0!	97.7% probability of not exceeding				
					Mean+1.65sigma	0 800	0.317	#DIV/0!	95% probability of not exceeding				
					NormInv at 99	1.020	0 404	#DIV/0!					
					Norminv at 95	0.798	0 316	#DIV/0!					
								mean of ln(x)	-1 681	-2.799	#DIV/0!		
								sigma of ln(x)	1 094	1.082	#DIV/0!		
								loginv at 99%	2 369	0 754	#DIV/0!	**99% probability of not exceeding**	
								loginv at 95%	1 125	0.361	#DIV/0!	95% probability of not exceeding	

Torit Stack - Lead Results

Year		Flow acfm	Flow scfm	Temp deg F	PWR tons/hr	Pb Conc mg/dscm	Pb Rate lb/hr	Pb EF lb/ton	log transformed data			Pb front lb/hr	Pb back lbhr
2007	5-Nov	188,300	179,500	90		0.0465	0 031	#DIV/0!	-3.07E+00	-3.47E+00	#DIV/0!	0.0266	0.0044
2007	11-Sep	168,400	152,000	98	23.08	0.019	0.011	4.77E-04	-3 96E+00	-4.51E+00	-7 65E+00	0.01	0.0013
2006	27-Jun	172,400	152,300	111	23.45	0.014	0.008	3.41E-04	-4.27E+00	-4.83E+00	-7.98E+00	0.003	0.0053
2005	11-May	167,200	151,800	99	23 5	0.042	0.024	1.02E-03	-3 17E+00	-3.73E+00	-6 89E+00	0.017	0.0069
2004	14-Apr	185,100	168,100	98	24.3	0.021	0.014	5.76E-04	-3.86E+00	-4.27E+00	-7.46E+00	0.01	0.0039
2002	26-Jun	225,100	198,100	115	25.35	0.013	0.0093	3.67E-04	-4.34E+00	-4.68E+00	-7.91E+00	0 008	0.001
					Mean	0.026	0.016	#DIV/0!					
					Sigma	0.015	0 009	#DIV/0!					
					Mean+2.33sigma	**0.060**	**0.038**	**#DIV/0!**	**99% probability of not exceeding**				
					Mean+2sigma	0.055	0 035	#DIV/0!	97.7% probability of not exceeding				
					Mean+1.65sigma	0.050	0.031	#DIV/0!	95% probability of not exceeding				
								mean of ln(x)	-3.779	-4.248	#DIV/0!		
								sigma of ln(x)	0.543	0.540	#DIV/0!		
								loginv at 99%	0.081	0.050	#DIV/0!	**99% probability of not exceeding**	
								loginv at 95%	0.056	0 035	#DIV/0!	95% probability of not exceeding	

Particulate Results

	Year		Flow acfm	Flow scfm	Temp deg F	PWR tons/hr	TSP Conc gr/dscf	TSP Rate lb/hr	TSP EF lb/ton	PM10 Conc gr/dscf	PM10 Rate lb/hr	PM10 EF lb/ton	%PM10
Main	2007	6-Nov	140,500	104,200	158		0.0517	46 2	#DIV/0!	0.0517	46 2	#DIV/0!	N/A
	2002	27-Jun	144,100	102,600	209	23.4	0.013	11 3	0.483	0.009	7.87	0.336	69 6
Torit	2007	5-Nov	187,800	165,900	90		0 0026	3.68	#DIV/0!	0.0026	3.68	#DIV/0!	N/A
	2002	27-Jun	228,700	197,300	122	23 4	0.0026	4 4	0.188	0 0029	5.05	0.216	114.8

Appendix C

Baseline Calculations with New Limits

Attachment C
EnviroFocus Technologies, LLC
Tampa, Florida

Revised Baseline Emissions and Comparison with PSD Thresholds

Pollutant	Baseline Period	Emission Unit	Ave. EF (lb/ton)	Basis for EF	Total Production in 24-month period (tons)	Baseline Actuals TPY	Future Actuals Requested TPY	Increase (tpy)	PSD Threshold (tpy)	PSD
SO2	Dec '99- Nov '01	Blast Furnace	65.81	Stack test/CEM	51472	846.89				
		Natural Gas (MMCF)	0.60	AP-42	58.7	0.01				
		Sulfur refinery usage	0.133	lb/lb	169750	5.64				
		Total				**852.54**	891.50	38.96	40	No
NOx	2000-2001	Blast Furnace	0.10	FIRE	50808	1.27				
		Natural Gas (MMCF)	100.00	AP-42	58.7	1.47				
		Niter refinery usage	0.24	lb/lb	532,260	31.94				
		Total				**34.67**	**203.87**	**169.20**	**40**	**Yes**
CO	2002-2003	Blast Furnace	62.10	Stack test	52292	811.87				
		Natural Gas (MMCF)	84.00	AP-42	60.7	1.27				
		Total				**813.15**	912.10	98.95	100	No
VOC	Dec '99- Nov '01	Blast Furnace	4.49	Stack test	51472	57.80				
		Hygiene baghouse	0.16	Stack test	51472	2.07				
		Natural Gas (MMCF)	5.50	AP-42	58.7	0.08				
		Total				**59.95**	15.96	-43.99	40	No
PM/PM10	Dec '99- Nov '01	Blast Furnace	0.1267	Stack test	51472	1.63				
		Hygiene baghouse	0.0732	Stack test	51472	0.94				
		Refinery baghouse	0.0222	Stack test	47198	0.26				
		Natural Gas (MMCF)	7.6000	AP-42	58.7	0.11				
		Blast Fugitives	1.21	AP-42	51472	15.570				
		Breaker Fugitives	0.356	calc	51472	4 581				
		Refining Fugitives	0.001	AP-42, 50% control	47198	0.012				
		Casting Fugitives	0.001	AP-42, 50% control	47198	0.012				
		Soda Ash Silo		calc		0.010				
		Roadway Fugitives		scaling		0.068				
		Total				**23.20**	**64.14**	**40.94**	**25/15**	**Yes**
Lead	2002-2003	Blast Furnace	0.0284	Stack test	52292	0.37				
		Hygiene baghouse	0.00798	Stack test	52292	0.1043				
		refinery baghouse	0.00087	Stack test	47882	0.0104				
		Natural Gas (MMCF)	0.00050	AP-42	60.7	7.59E-06				
		Blast Fugitives	0.03	AP-42	52292	0.392				
		Breaker Fugitives	0.0044	calc	52292	0.058				
		Refining Fugitives	0.0003	AP-42, 50% control	47882	0.004				
		Casting Fugitives	0.00035	AP-42, 50% control	47882	0.004				
		Roadway Fugitives		scaling		0.028				
		Total				**0.97**	**0.96**	**-0.01**	**0.6**	**No**
Mercury	2002-2003	Blast Furnace	0.00091	NESHAP BID	52292	0.0119				
		Natural Gas (MMCF)	2.60E-04	AP-42	60.7	3.95E-06				
		Kettle Refining	4.70E-06	FIRE	47882	5.6261E-05				
		Total				**0.0120**	0.02	0.0080	0.1	No
Carbon Disulfide	2002-2003	Blast Furnace	2.25	NESHAP BID	52292	**29.41**	4.97	-24.44	10	No
H2SO4 Mist	May '02 - Apr '04	Battery breaking	0.356	uncontrolled calc	49810	**4.433**	6.49	2.06	7	No

Notes:

Natural Gas (MMCF) is for combustion of natural gas in the facility's refining kettles
Natural Gas usage for the Dec '99 - Nov '01 period is represented by the usage in calendar years 2000 and 2001
Roadway fugitives adjusted for 90% control from wet suppression

Test Data

Note: For SO2 test data and analysis see sheet "AltSO2"

Year	Test Date	CO (lbs/hr)	Blast Furnace Production (tph)	CO (lb/ton) Output	Avg Blast Furnace Metals Out (tpy)	CO (tpy) Lead Produced	
2002	7/16/2002	209.7	3.25	64.52307692			
2003	7/24/2003	171.5	3.5	49			
2004	7/27/2004	234.7	3.08	76.20			
2005	7/28/2005	117.2	2.75	42.61818182			
2006	7/19/2006	243.9	3.12	78.17307692			
	Average			**62.10**	26146	**811.87**	**Ave./Year**

CO baseline period is 24 months ending December 2003

Year	Test Date	VOC (lbs/hr)	Blast Furnace Production (tph)	VOC (lb/ton) Output	Blast Furnace Metals Out (tpy)	VOC (tpy) Lead Produced	
	Blast Furnace						
1998	6/25/1998	12.10	3	4.034			
1999	7/29/1999 Blast Furnace	15.70	3.67	4.277			
2000	6/8/2000 Blast Furnace	26.52	3.77	7.036			
2001	6/26/2001	6.85	3.18	2.154			
2002	7/16/2002	16.11	3.25	4.956			
	Average			**4.491**	25736	**57.80**	**Ave./Year**
	Hygiene BH						
1998	6/24/1998	0.28	2.75	0.100			
1999	7/28/99 Hygiene BH	0.63	3.5	0.179			
	9/9/99 Hygiene BH	0.34	3.5	0.096			
2000	6/07/00 Hygiene BH	0.88	3.42	0.258			
2001	6/25/2001	1.01	3.42	0.296			
2002	7/15/2002	0.11	3.25	0.035			
	Average			**0.16**	25736	**2.07**	**Ave./Year**

VOC baseline period is 24 months ending November 2001

Year	Test Date	PM (lbs/hr)	Blast Furnace Production (tph)	PM (lb/ton) Output	Process Weight Rate (tpy)	PM (tpy) Lead Produced
	Blast furnace					
1998	6/25/1998	0.45	3	0.150		
1998	9/21/1998	0.61	3.43	0.178		
	12/9/1998	0.6828	3	0.228		
1999	3/5/1999 Blast Furnace	0.53	3.4	0.156		
	7/29/99 Blast Furnace	0.09	3.67	0.025		
2000	6/08/00 Blast Furnace	0.69	3.77	0.182		
2001	6/26/2001	0.07	3.18	0.021		
2002	7/16/2002	0.24	3.25	0.075		
	Average			**0.127**	25736	**1.63**
	Refinery BH					
1998	6/23/1998	0.060000	4.05	0.015		
1999	7/27/1999	0.015760	6.05	0.003		

2000	6/6/2000	0.271100	6.85	0.040		
2001	6/27/2001	0.084942	6.51	0.013		
2002	7/18/2002	0.127495	3.1	0.041		
	Average			**0.022**	23599	**0.26**
	Hygene BH					
1998	6/24/1998	0.107	2.75	0.039		
1999	7/28/1999	0.389	3.5	0.111		
2000	6/7/2000	0.209	3.42	0.061		
2001	6/25/2001	0.208	3.42	0.061		
2002	7/15/2002	0.306	3.25	0.094		
	Average			**0.073**	25736	**0.94**

Ave./Year

PM baseline period is 24 months ending November 2001

Year	Test Date	Pb (lbs/hr)	Blast Furnace Production (tph)	Pb (lb/ton) Output	Process Weight Rate (tpy)	Pb (tpy) Lead Produced
	Blast Furnace					
2002	7/16/2002	0.0504	3.25	0.0155		
2003	7/24/2003	0.0115	3.5	0.0033		
2004	7/27/04 Blast Furnace	0.1627	3.08	0.0528		
2005	7/28/05 Blast Furnace	0.1335	2.75	0.0485		
2006	7/19/2006	0.0676	3.12	0.0217		
	Average			**0.028**	26146	**0.37**
	Refinery BH					
2002	7/18/2002	0.00280	3.1	0.001		
2003	7/21/2003	0.00140	3.96	0.000		
2004	7/19/2004	0.00600	2.99	0.002		
2005	7/26/2005	0.00150	3.07	0.000		
2006	7/17/2006	0.00210	3.53	0.001		
	Average			**0.001**	23941	**0.01**
2002	7/15/2002	0.1149	3.25	0.0354		
2003	7/22/2003	0.002069	3.5	0.0006		
2004	8/03/04 Hygene BH	0.007109	3.08	0.0023		
2005	7/27/05 Hygene BH	0.001301	2.96	0.0004		
2006	7/18/2006	0.003617	3	0.0012		
	Average			**0.0080**	26146	**0.10**

Ave./Year

Pb baseline period is 24 months ending December 2003

Alternate SO2 Baselines and PSD-Avoidance Future Allowables

Five-year average of emission factors including two missing tests

Year	Test Date	SO2 (lbs/hr)	Blast Furnace Production (tph)	SO2 (lb/ton) Output
1997	9/25/1997	206.7	3.31	62.447
	12/11/1997	252.1	3.5	72.029
1998	3/17/1998	261.4	3.2	81.688
	6/25/1998	183.6	3	61.200
	7/20/1998	234	3.14	74.522
	9/21/1998	222.8	3.43	64.956
	12/9/1998	295.4	3	98.467
1999	3/5/1999	171.4	3.4	50.412
	7/29/1999	208.8	3.67	56.894
	6/8/2000	215.7	3.77	57.215
	6/26/2001	140.8	3.18	44.277
	CEM (10-01 to 6-02)			65.656
				65.81

Max 24 month production:
25,736 period ending November 2001

Baseline emissions (tons/year):
846.89

Future allowable (tons/year):
886.89

Use of 2 years of CEM data, per rule 62-210.370(2)(b) for CEM utilizing a calibrated continuous flowmeter

CEM-derived 24-month emission factor, from SO2 CEM sheet: 65.271 for period ending Sept 2003

24-month annual average blast furnace production: 25,669 for period ending Sept 2003

Baseline annual emissions: 837.72 (tons/year)

Future allowable emissions: **877.72** (tons/year)

Five-year average of emission factors NOT including two missing tests

Year	Test Date	SO2 (lbs/hr)	Blast Furnace Production (tph)	SO2 (lb/ton) Output
1997	9/25/1997	206.7	3.31	62.447
	12/11/1997	252.1	3.5	72.029
1998	3/17/1998	Not in ARMS		
	6/25/1998	183.6	3	61.200
	7/20/1998	Not in ARMS		
	9/21/1998	222.8	3.43	64.956
	12/9/1998	295.4	3	98.467
1999	3/5/1999	171.4	3.4	50.412
	7/29/1999	208.8	3.67	56.894
	6/8/2000	215.7	3.77	57.215
	6/26/2001	140.8	3.18	44.277
	CEM (10-01 to 6-02)			65.656
				63.36

Max 24 month production:
25,736 period ending November 2001

Baseline emissions (tons/year):
815.25

Future allowable (tons/year):
855.25

SO2 CEM Data

Date	SO2 (lb/ton)	SO2 (12-month avg)	SO2 (24-month avg)	
Oct-01	68.5			68.5
Nov-01	78.5			78.5
Dec-01	64.8			64.8
Jan-02	70.1			70.1
Feb-02	66			66
Mar-02	59.8			59.8
Apr-02	60.4			60.4
May-02	64.1			64.1
Jun-02	58.7			58.7
Jul-02	61.4			65.66
Aug-02	61.8			
Sep-02	66.2	65.03		
Oct-02	72.3	65.34		
Nov-02	73.5	64.93		
Dec-02	73	**65.61**		
Jan-03	73.6	65.90		
Feb-03	67.9	66.06		
Mar-03	71.6	67.04		
Apr-03	64.9	67.42		
May-03	58.2	66.93		
Jun-03	59.8	67.02		
Jul-03	64	67.23		
Aug-03	52	66.42		
Sep-03	55.4	65.52	65.27	
Oct-03	49.7	63.63	64.49	
Nov-03	54.5	62.05	63.49	
Dec-03	59.6	**60.93**	63.27	
Jan-04	60.9	59.88	62.89	
Feb-04	57.1	58.98	62.52	
Mar-04	58.6	57.89	62.47	
Apr-04	68.3	58.18	62.80	
May-04	76.5	59.70	63.31	
Jun-04	72.1	60.73	63.87	
Jul-04	72.1	61.40	64.32	
Aug-04	63.6	62.37	64.39	
Sep-04	62.1	62.93	64.22	
Oct-04	45.2	62.55	63.09	
Nov-04	55.5	62.63	62.34	
Dec-04	45.7	61.48	61.20	
Jan-05	43.1	59.99	59.93	
Feb-05	49.7	59.38	59.18	
Mar-05	43.3	58.10	58.00	
Apr-05	50.1	56.58	57.38	
May-05	48.4	54.24	56.97	
Jun-05	55	52.82	56.77	
Jul-05	60.1	51.82	56.61	
Aug-05	60.8	51.58	56.98	
Sep-05	59.5	51.37	57.15	
Oct-05	61.7	52.74	57.65	
Nov-05	68.9	53.86	58.25	
Dec-05	67.6	55.68	58.58	
Average	62.724			

SO2 (lbs)	SO2 (tons)	SO2 (12-month avg) TPY
153811	76.91	
143557	71.78	
101066	50.53	
164134	82.07	
132552	66.28	
115680	57.84	
127128	63.56	
141924	70.96	
134294	67.15	
127194	63.60	
151085	75.54	
134429	67.21	813.43
173773	86.89	823.41
166148	83.07	834.70
169333	84.67	868.84
169039	84.52	871.29
144691	72.35	877.36
137280	68.64	888.16
138617	69.31	893.90
127445	63.72	886.66
124879	62.44	881.96
146642	73.32	891.68
106922	53.46	869.60
113093	56.55	858.93
113112	56.56	828.60
119582	59.79	805.32
135518	67.76	788.41
126269	63.13	767.03
112351	56.18	750.86
113885	56.94	739.16
124013	62.01	731.86
168602	84.30	752.43
125395	62.70	752.69
150797	75.40	754.77
116750	58.38	759.68
112349	56.17	759.31
92988	46.49	749.25
102449	51.22	740.68
67488	33.74	706.67
69919	34.96	678.49
76233	38.12	660.43
73334	36.67	640.16
85629	42.81	620.97
66182	33.09	569.76
98505	49.25	556.31
88250	44.13	525.04
128092	64.05	530.71
125798	62.90	537.43
133677	66.84	557.78
148857	74.43	580.98
134875	67.44	614.68

SO2 lb/ton avg. for 2002-2003
70.1
66
59.8
60.4
64.1
58.7
61.4
61.8
66.2
72.3
73.5
73
73.6
67.9
71.6
64.9
58.2
59.8
64
52
55.4
49.7
54.5
59.6
63.2708333

Data Verification

Year	Blast Furnace Metals Out (tpy)	Coke Usage (tpy)	Test Date (SO2)	SO2 Test Data (lb/ton)		Test Date (CO)	CO Test Data (lb/ton)	Test Date (VOC)	VOC Test Data (lb/ton)	Test Date (PM)	PM Test Data (lb/ton)	Test Date (Hg)	Lead Test Data (lb/ton)	Natual Gas Burned (MMCF/YR)
1997	22585.67		6/27/1997	97.95	feedstock?									
			9/25/1997	62.45	no output ref?									
			12/11/1997	72.03										
1998	24802.19		3/17/1998	*	no test record									
			6/25/1998	61.20										
			7/20/1998	*	no test record									
			9/21/1998	64.96										
			12/9/1998	98.47										
1999	23876		3/5/1999	50.41				7/29/1999	4.28	3/5/1999	0.16			
			7/29/1999	56.89						7/29/1999	0.02			
2000	26476	2757.6						6/8/2000	7.04	6/8/2000	0.18			34.7
2001	24332	2680.2												24
2003	25878					7/24/2003	49							
2004	23064					7/27/2004	76.20					7/27/2004	0.05	
2005	21744											7/28/2005	0.05	

NOx Emissions:
Coke EF=21 lb/ton. Reference: Fire 1-01-008-01
Natural Gas EF=100lb/MMCF Reference: AP-42

Based on AOR

Year	Lead Casted (tpy) Refining
1997	20955.07
1998	22071.37
1999	22959.82
2000	24286.4
2001	22780.1
2003	23940.3
2004	22673.4
2005	17839

Year	Blast Furnace Metals In (tpy)
1997	31213.25
1998	30975.6
1999	37986.8
2000	39498.2
2001	38393.6
2003	35490.8
2004	32929.8
2005	31197.9

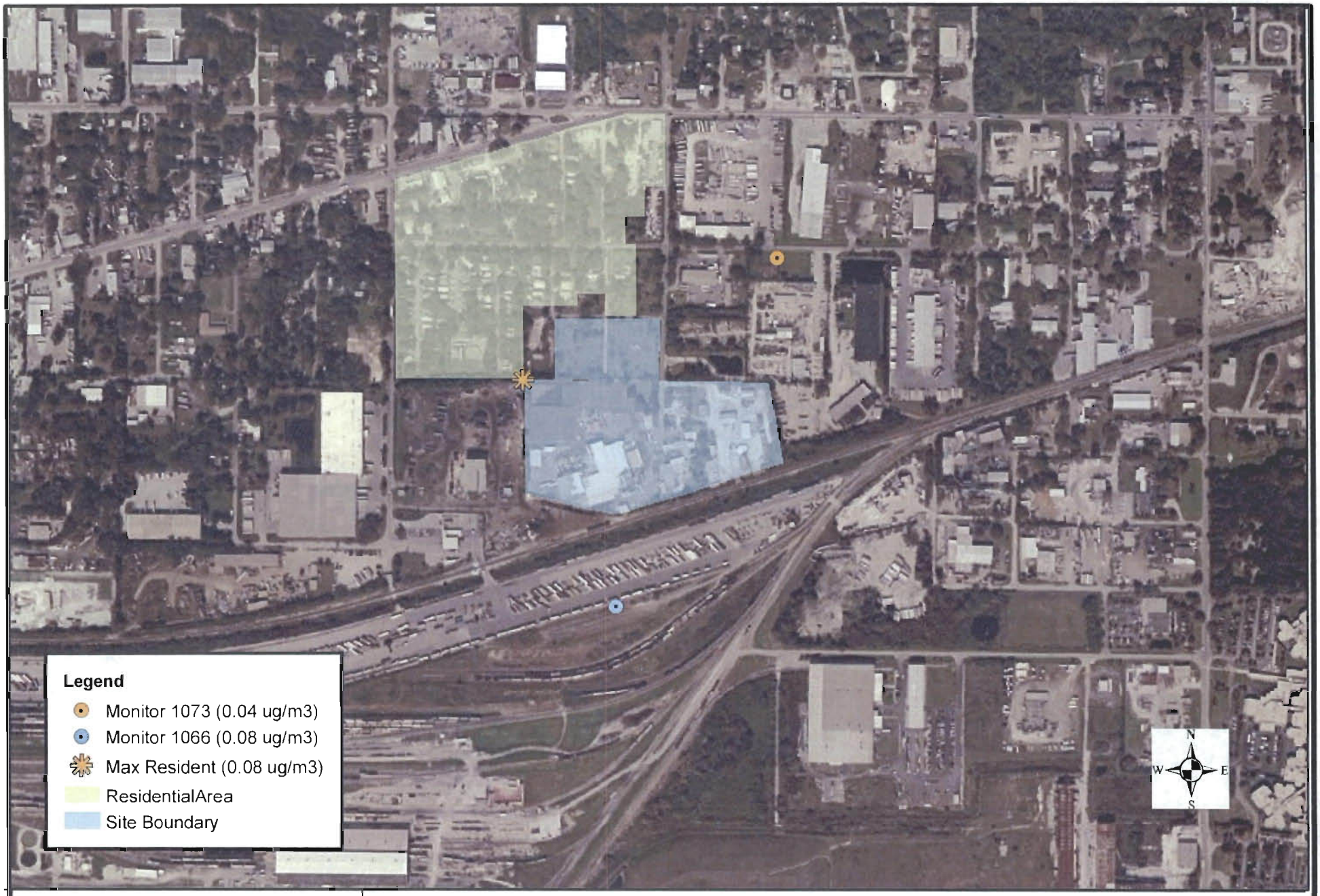
Year	Blast Furnace Metals Out (tpy)
1997	22585.67
1998	24802.19
1999	23876
2000	26476
2001	24332
2002	26414
2003	25878
2004	23064
2005	21744

Year	Metals into Kettles (tpy)
1997	22585.67
1998	24802.19
1999	25721.3
2000	27673.9
2001	26859.8
2002	
2003	28157.1
2004	24916.2
2005	22107.4

CEM	52292	
Total Avg	62.724	820.0
Avg.2002-03	63.27	827 1

Appendix D

Revised Lead NAAQS Modeling Results



ENVIRON

1600 Parkwood Circle, Suite 310, Atlanta, GA 30339

Max Rolling Quarterly Lead Concentration Isopleths (130 ft Scrubber Stack)

EnviroFocus Technologies, LLC
Tampa, Florida

0 250 500 Meters

Drafter: RS | Date: 2/11/09 | Contract Number: 07-15422D | Approved: | Revised:

Appendix E

2007 Lead Monitoring Data

	Pb (µg/m3)														
	24-Hour Values			Quarterly Averages					Monitor Number						
Row #	# Obs	1st Max	2nd Max	Qtr 1	Qtr 2	Qtr 3	Qtr 4	# Exceed		Site ID	Site Address	City	County	State	EPA Region
SORT															
1	355	23.37	13.16	1.21	1.5	1.63	1.26	1	2	290990015	Herc - Broad St	Herculaneum	Jefferson Co	MO	7
2	364	21.57	11.89	1.37	1.65	1.74	1.31	2	1	290990015	Herc - Broad St	Herculaneum	Jefferson Co	MO	7
3	363	11.77	6.72	1.09	1.11	1.06	1.36	0	2	290990004	Herc, Main St	Herculaneum	Jefferson Co	MO	7
4	354	10.87	9.07	1.11	1.14	1.18	1.46	0	1	290990004	Herc, Main St	Herculaneum	Jefferson Co	MO	7
5	59	10.7	4.8	0.7	0.52	0.74	1.65	1	1	120571066	1700 North 66th Street	Tampa	Hillsborough Co	FL	4
6	341	9.04	8.51	0.54	0.84	1.07	0.75	0	2	290990021	Herc, Circle St.	Herculaneum	Jefferson Co	MO	7
7	167	6.48	5.23	0.46	0.47	0.58	0.84	0	2	180350009	2601 W. Mt. Pleasant Blvd. - East Site	Muncie	Delaware Co	IN	5
8	179	5.59	5.52	0.44	0.47	0.71	0.84	0	1	180350009	2601 W. Mt. Pleasant Blvd. - East Site	Muncie	Delaware Co	IN	5
9	114	5.57	4.42	0.33	0.33	0.54	0.58	0	2	290990011	Herc, Bluff	Herculaneum	Jefferson Co	MO	7
10	59	5.24	3.29	0.43	0.68	0.76	0.96	0	1	290930016	Drb #1, South		Iron Co	MO	7
11	121	5.14	5.14	0.44	0.38	0.48	0.62	0	1	290990011	Herc, Bluff	Herculaneum	Jefferson Co	MO	7
12	57	5.12	3.3	0.5	0.67	0.81	0.98	0	2	290930016	Drb #1, South		Iron Co	MO	7
13	58	5.08	4.18	0.97	0.58	0.56	1.01	0	1	290930021	Drb #5, North		Iron Co	MO	7
14	114	4.87	4.15	0.17	0.31	0.56	0.45	0	4	290990005	Herc, Dunklin	Herculaneum	Jefferson Co	MO	7
15	110	4.71	2.54	0.11	0.26	0.52	0.42	0	2	290990005	Herc, Dunklin	Herculaneum	Jefferson Co	MO	7
16	119	4.65	3.48	0.18	0.29	0.53	0.42	0	3	290990005	Herc, Dunklin	Herculaneum	Jefferson Co	MO	7
17	60	4.61	4.47	1.18	0.5	0.79	1.41	0	4	11090003	Henderson Road	Troy	Pike Co	AL	4
18	116	4.17	3.03	0.13	0.26	0.5	0.39	0	1	290990005	Herc, Dunklin	Herculaneum	Jefferson Co	MO	7
19	57	3.8	3.43	0.77	0.44	0.65	1.18	0	3	11090003	Henderson Road	Troy	Pike Co	AL	4
20	59	2.49	1.98	0.63	0.44	0.54	0.46	0	1	480850009	Gnb Property, North Of Plant	Frisco	Collin Co	TX	6
21	60	2.3	1.1	0.15	0.39	0.19	0.08	0	1	120571073	6811 East 14th Avenue	Tampa	Hillsborough Co	FL	4
22	50	2.11	2.05	0.36	0.35	0.69	0.36	0	1	270370465	149 & Yankee Doodle Rd.	Eagan	Dakota Co	MN	5
23	56	1.82	0.77	0.16	0.34	0.24	0.15	0	1	420111717	Spring Valley Road	Laureldale	Berks Co	PA	3
24	53	1.77	1.06	0.07	0.04	0.14	0.24	0	1	171190010	15th & Madison	Granite City	Madison Co	IL	5
25	167	1.72	1.47	0.17	0.21	0.21	0.14	0	1	180350008	2601 W. Mt. Pleasant Blvd. - West Site	Muncie	Delaware Co	IN	5
26	38	1.39	1.28	0.31	0.12	0.33		0	2	11090006	118 Anderson Road, Troy, Ala.	Troy	Pike Co	AL	4
27	10	1.34	0.96				0.41	0	2	270370465	149 & Yankee Doodle Rd.	Eagan	Dakota Co	MN	5
28	55	1.34	0.76	0.29	0.17	0.21	0.17	0	1	480850003	East Side Of 5th Street		Collin Co	TX	6
29	59	1.2	0.26	0.14	0.07	0.06	0.07	0	2	290930027	Drg - Post Office		Iron Co	MO	7
30	58	1.17	0.28	0.15	0.06	0.05	0.07	0	1	290930027	Drg - Post Office		Iron Co	MO	7
31	57	1.14	0.99	0.21	0.23	0.17	0.22	0	1	290990013	Herc, Sherman	Herculaneum	Jefferson Co	MO	7
32	107	0.76	0.57	0.17	0.19	0.13	0.18	0	1	471633001	364 Exide Dr.	Bristol	Sullivan Co	TN	4
33	12	0.69	0.62	0.36	0.2	0.21	0.52	0	1	390510001	200 Van Buren	Delta	Fulton Co	OH	5
34	57	0.47	0.44	0.03	0.1	0.06	0.02	0	1	180892011	2345 167th St Superior Engineering	Hammond	Lake Co	IN	5
35	60	0.47	0.44	0.03	0.09	0.06	0.01	0	2	180892011	2345 167th St Superior Engineering	Hammond	Lake Co	IN	5
36	113	0.43	0.28	0.08	0.1	0.06	0.09	0	1	471633003	364 Exide Dr.	Bristol	Sullivan Co	TN	4
37	53	0.43	0.37	0.08	0.07	0.12	0.1	0	1	420070505	Tamaqui Dr		Beaver Co	PA	3
38	56	0.36	0.35	0.06	0.06	0.09	0.08	0	2	480850007	6931 Ash Street	Frisco	Collin Co	TX	6
39	52	0.35	0.28	0.11	0.1	0.09	0.1	0	1	420110717	Lyons Station Po Box	Lyons (Corporate And Rr Name F	Berks Co	PA	3

	Pb (µg/m3)														
	24-Hour Values			Quarterly Averages					Monitor Number						
Row #	# Obs	1st Max	2nd Max	Qtr 1	Qtr 2	Qtr 3	Qtr 4	# Exceed		Site ID	Site Address	City	County	State	EPA Region
120	58	0.03	0.02	0.01	0.01	0.01	0.01	0	7	401430235	2443 South Jackson Avenue	Tulsa	Tulsa Co	OK	6
121	58	0.03	0.03	0	0.01	0	0.01	0	1	450430006	1369 Dock Street	Georgetown	Georgetown Co	SC	4
122	57	0.03	0.03	0	0.01	0	0	0	1	450470002	165 Premier Drive		Greenwood Co	SC	4
123	57	0.03	0.03	0	0	0	0.01	0	2	450631002	2 Lavern Jumper Road	Cayce	Lexington Co	SC	4
124	57	0.03	0.02	0.01	0	0	0.01	0	1	450790019	323 S. Bull Street	Columbia	Richland Co	SC	4
125	53	0.03	0.01	0	0	0	0	0	1	450850001	108 North Magnolia Street	Sumter	Sumter Co	SC	4
126	59	0.03	0.02	0.01	0.01	0.01	0.02	0	2	60374002	3648 N. Long Beach Blvd., Long Beach	Long Beach	Los Angeles Co	CA	9
127	58	0.03	0.03	0.01	0.01	0.01	0.01	0	2	60374004	1305 E. Pacific Coast Hwy., Long Beach	Long Beach	Los Angeles Co	CA	9
128	60	0.03	0.02	0.01	0.01	0.01	0.01	0	1	60711004	1350 San Bernardino Rd., Upland	Upland	San Bernardino Co	CA	9
129	59	0.03	0.02	0.01	0	0.01	0.01	0	2	80310025	678 S. Jason St.	Denver	Denver Co	CO	8
130	57	0.03	0.02	0.01	0.01	0.01	0.01	0	2	171170002	Heaton & Dubois	Nilwood	Macoupin Co	IL	5
131	56	0.03	0.03	0.01	0.01	0.01	0.01	0	1	171430037	613 N.E. Jefferson	Peoria	Peoria Co	IL	5
132	59	0.03	0.02	0.01	0.01	0.01	0.01	0	1	250250002	Kenmore Sq	Boston	Suffolk Co	MA	1
133	54	0.03	0.02	0.01	0.01	0.01	0.01	0	1	270370442	County Rd 42	Rosemount	Dakota Co	MN	5
134	48	0.02	0.01	0.01	0.01	0.01	0.01	0	1	271377555	Industrial Rd.	Duluth	St. Louis Co	MN	5
135	53	0.02	0.02	0	0	0	0	0	1	450910005	2102 Cherry Road	Rock Hill	York Co	SC	4
136	13	0.02	0.01	0.01				0	4	261630015	6921 West Fort	Detroit	Wayne Co	MI	5
137	15	0.02	0.01	0.01				0	1	261630005	315 Genesee	River Rouge	Wayne Co	MI	5
138	52	0.02	0.01	0.01	0.01	0.01	0.01	0	1	270370423	2142 120th Street East	Inver Grove Heights (Rr Name I	Dakota Co	MN	5
139	52	0.02	0.01	0	0	0	0	0	2	450450008	91 Wakefield Street (110 Thruston Street	Greenville	Greenville Co	SC	4
140	59	0.02	0.02	0.01	0	0.01	0.01	0	1	80310025	678 S. Jason St.	Denver	Denver Co	CO	8
141	11	0.02	0.02	0.01	0.02	0.02	0.02	0	1	390350038	2547 St Tikhon	Cleveland	Cuyahoga Co	OH	5
142	19	0.02	0.01	0.01			0.01	0	2	181630006	1 Nw Martin Luther King Jr. Blvd.- Evans	Evansville	Vanderburgh Co	IN	5
143	53	0.02	0.02	0	0	0	0	0	2	450190003	4830 Jenkins Ave.	North Charleston	Charleston Co	SC	4
144	29	0.02	0.02	0.01	0	0	0.01	0	1	132450092	Clara Jenkins Sch., 101 Dan Bowles Rd.	Augusta	Richmond Co	GA	4
145	46	0.02	0.02	0	0	0	0	0	1	450130007	1407 King Street	Beaufort	Beaufort Co	SC	4
146	49	0.02	0.01	0.01	0.01	0.01	0.01	0	2	271377555	Industrial Rd.	Duluth	St. Louis Co	MN	5
147	48	0.02	0.01	0	0	0	0	0	1	450450008	91 Wakefield Street (110 Thruston Street	Greenville	Greenville Co	SC	4
148	55	0.01	0	0	0	0	0	0	1	450452002	203 West Poinsett Street	Greer	Greenville Co	SC	4
149	18	0.01	0.01			0.01	0.01	0	7	60950006	E Second St, Benicia	Benicia	Solano Co	CA	9
150	58	0.01	0.01	0.01	0.01	0.01	0.01	0	1	121033005	11401 47th St N Pinellas Park	Pinellas Park	Pinellas Co	FL	4
151	28	0.01	0.01	0	0	0	0	0	1	130090001	Baldwin Co Airport	Milledgeville	Baldwin Co	GA	4
152	29	0.01	0.01	0	0	0	0	0	1	130210012	Macon Se	Macon	Bibb Co	GA	4
153	30	0.01	0.01	0	0	0	0	0	1	130510021	2500 E. President Street, Bldg-A	Savannah	Chatham Co	GA	4
154	26	0.01	0.01	0	0	0	0	0	1	130690002	Douglas	Douglas	Coffee Co	GA	4
155	27	0.01	0.01	0	0	0	0	0	1	131150004	Floyd Co. Hth. Dept.,315 W. Tenth St.	Rome	Floyd Co	GA	4
156	28	0.01	0.01	0	0	0	0	0	1	131210020	Utoy Creek, 736 Selig Dr.		Fulton Co	GA	4
157	30	0.01	0.01	0	0	0	0	0	2	131210020	Utoy Creek, 736 Selig Dr.		Fulton Co	GA	4
158	24	0.01	0.01	0	0	0	0	0	1	131273001	Brunswick Coastal College	Brunswick	Glynn Co	GA	4
159	38	0.01	0	0	0	0	0	0	1	131390003	Gainesville, Fair St. Elementary School	Gainesville	Hall Co	GA	4

	Pb (µg/m3)															
	24-Hour Values			Quarterly Averages					Monitor Number							
Row #	# Obs	1st Max	2nd Max	Qtr 1	Qtr 2	Qtr 3	Qtr 4	# Exceed		Site ID	Site Address	City	County	State	EPA Region
160	28	0.01	0	0	0	0	0	0	1	131530001	Warner Robins	Warner Robins	Houston Co	GA	4
161	25	0.01	0.01	0	0	0	0.01	0	1	132155000	Columbus State University	Columbus	Muscogee Co	GA	4
162	60	0.01	0	0	0	0	0	0	1	150032004	860 4th St, Pearl City	Pearl City	Honolulu Co	HI	9
163	15	0.01	0.01	0				0	4	260490021	Whaley Park, 3610 Iowa	Flint	Genesee Co	MI	5
164	8	0.01	0.01	0				0	1	260810020	1179 Monroe Nw	Grand Rapids	Kent Co	MI	5
165	8	0.01	0.01	0				0	1	261610008	555 Towner St	Ypsilanti	Washtenaw Co	MI	5
166	14	0.01	0.01	0.01				0	2	261630001	14700 Goddard	Allen Park	Wayne Co	MI	5
167	15	0.01	0.01	0.01				0	1	261630019	11600 East Seven Mile Road	Detroit	Wayne Co	MI	5
168	13	0.01	0.01	0.01				0	1	270370421	3134 117th E.	Inver Grove Heights (Rr Name I	Dakota Co	MN	5
169	43	0.01	0	0	0	0	0	0	1	450190046	390 Bulls Island Road (Awendaw)		Charleston Co	SC	4
170	58	0.01	0.01	0.01	0	0.01	0.01	0	6	401430191	1413 S. Cincinnati, Tulsa, Ok 74119	Tulsa	Tulsa Co	OK	6
171	12	0.01	0.01	0.01	0	0	0	0	1	391670008	S.R. 676 Washington Career Center	Marietta	Washington Co	OH	5
172	12	0.01	0.01	0.01	0.01	0.01	0.01	0	1	390490025	1700 Ann St.	Columbus	Franklin Co	OH	5
173	12	0.01	0.01	0.01	0.01	0.01	0.01	0	2	390170015	3901 Lefferson	Middletown	Butler Co	OH	5
174	32	0.01	0.01		0.01	0.01	0.01	0	1	271630446	22 Point Rd	Bayport	Washington Co	MN	5
175	53	0.01	0.01	0.01	0.01	0.01	0.01	0	1	271630009	7th Ave. & 5th Street	St. Paul Park	Washington Co	MN	5
176	54	0.01	0.01	0.01	0.01	0.01	0.01	0	1	271377001	327 First St. S.	Virginia	St. Louis Co	MN	5
177	53	0.01	0.01	0.01	0.01	0.01	0.01	0	1	270531007	4646 North Humboldt	Minneapolis	Hennepin Co	MN	5
178	53	0.01	0.01	0.01	0.01	0.01	0.01	0	1	270530966	309 2nd Ave. S.	Minneapolis	Hennepin Co	MN	5
179	55	0.01	0.01	0.01	0.01	0.01	0.01	0	1	270530963	2727 10th Ave. S.	Minneapolis	Hennepin Co	MN	5
180	55	0.01	0.01	0.01	0.01	0.01	0.01	0	4	482011034	1262 1/2 Mae Drive	Houston	Harris Co	TX	6
181	77	0.01	0.01	0.01				0	2	481130057	3004 N. Westmoreland	Dallas	Dallas Co	TX	6
182	56	0.01	0.01	0.01	0.01	0.01	0.01	0	1	480610006	344 Porter Drive	Brownsville	Cameron Co	TX	6
183	11	0.01	0.01	0.01				0	1	481130018	3049 Morrell	Dallas	Dallas Co	TX	6
184	26	0	0	0	0	0	0	0	1	130850001	Dawsonville, Ga Forestry Commission		Dawson Co	GA	4
185	27	0	0	0	0	0	0	0	1	131850003	Valdosta__S.L. Mason	Valdosta	Lowndes Co	GA	4
186	27	0	0	0	0	0	0	0	1	132230003	Yorkville		Paulding Co	GA	4
187	14	0	0	0				0	1	261130001	1769 S Jeffs Rd		Missaukee Co	MI	5
188	56	0	0	0	0	0	0	0	1	450410002	3300 Thornblade Drive		Florence Co	SC	4
189	7	0	0	0				0	1	550790010	Health Center, 1337 So 16th St	Milwaukee	Milwaukee Co	WI	5
190	56	0	0	0	0	0	0	0	2	450510002	632 18th Avenue N.	Myrtle Beach	Horry Co	SC	4
191	54	0	0	0	0	0	0	0	2	450790007	8311 Parklane Road	Dentsville (Dents)	Richland Co	SC	4
192	57	0	0	0	0	0	0	0	1	450790021	1850 South Cedar Creek Road (Gadsden)		Richland Co	SC	4
193	53	0	0	0	0	0	0	0	2	450830001	145 South Spring Street	Spartanburg	Spartanburg Co	SC	4
194	57	0	0	0	0	0	0	0	1	450430007	1003 Power Avenue	Georgetown	Georgetown Co	SC	4
Grand Total								4							

Monitor located specifically for a lead-emitting source

Highest quarterly averages for monitors that are not located near lead-emitting sources.

Quarterly averages for closest monitor that is not located near a lead-emitting source

	Pb (ug/m3)														
	24-Hour Values			Quarterly Averages					Monitor Number						
Row #	# Obs	1st Max	2nd Max	Qtr 1	Qtr 2	Qtr 3	Qtr 4	# Exceed		Site ID	Site Address	City	County	State	EPA Region
40	60	0.33	0.17	0.06	0.07	0.07	0.07	0	3	471633002	364 Exide Dr. On Exide Property	Bristol	Sullivan Co	TN	4
41	58	0.31	0.14	0.03	0.02	0.03	0.05	0	2	170310022	3535 E. 114th St.	Chicago	Cook Co	IL	5
42	12	0.29	0.26	0.26	0.13	0.08	0.07	0	1	390910006	320 Richard	Bellefontaine	Logan Co	OH	5
43	59	0.29	0.26	0.04	0.07	0.04	0.04	0	1	420210808	East Conemaugh	East Conemaugh (Corporate Name	Cambria Co	PA	3
44	55	0.26	0.14	0.07	0.05	0.04	0.04	0	1	290930029	Drg - Big Creek		Iron Co	MO	7
45	111	0.26	0.19	0.07	0.07	0.05	0.05	0	1	471633002	364 Exide Dr. On Exide Property	Bristol	Sullivan Co	TN	4
46	58	0.24	0.14	0.05	0.06	0.05	0.05	0	1	420110005	Heffner Road		Berks Co	PA	3
47	114	0.23	0.16	0.07	0.07	0.05	0.05	0	2	471633002	364 Exide Dr. On Exide Property	Bristol	Sullivan Co	TN	4
48	12	0.22	0.15	0.07	0.06	0.11	0.16	0	1	390350049	E. 56th St.	Cleveland	Cuyahoga Co	OH	5
49	58	0.22	0.22	0.03	0.06	0.03	0.02	0	1	360713002	Ballard Road, Town Of Wallkill		Orange Co	NY	2
50	12	0.19	0.09	0.04	0.06	0.06	0.1	0	1	390910003	1222 Superior	Bellefontaine	Logan Co	OH	5
51	60	0.19	0.19	0.03	0.05	0.06	0.04	0	1	180890023	Water Filtration Plant	East Chicago	Lake Co	IN	5
52	12	0.19	0.19	0.14	0.13	0.09	0.06	0	1	390910007	1205 Superior	Bellefontaine	Logan Co	OH	5
53	58	0.16	0.12	0.03	0.03	0.03	0.02	0	1	180970063	7601 Rockville Road	Indianapolis (Remainder)	Marion Co	IN	5
54	55	0.16	0.05	0.02	0.01	0.02	0.01	0	1	60371602	4144 San Gabriel River Pkwy, Pico Rivera	Pico Rivera	Los Angeles Co	CA	9
55	60	0.15	0.07	0.01	0.02	0.01	0	0	2	450470002	165 Premier Drive		Greenwood Co	SC	4
56	54	0.13	0.07	0.01	0.02	0.03	0.01	0	1	180892008	1300 141 St Street	Hammond	Lake Co	IN	5
57	44	0.13	0.08	0.02	0.03	0.01	0.02	0	9	261630033	2842 Wyoming	Dearborn	Wayne Co	MI	5
58	60	0.13	0.03	0.01	0.01	0.02	0.01	0	1	180970078	3120 E. 30th St., Washington Park	Indianapolis	Marion Co	IN	5
59	56	0.13	0.08	0.03	0.02	0.03	0.02	0	2	180970063	7601 Rockville Road	Indianapolis (Remainder)	Marion Co	IN	5
60	58	0.12	0.09	0.05	0.03	0.02	0.01	0	6	481410002	J Harold Tillman Hlt Ct 222 S Campbell S	El Paso	El Paso Co	TX	6
61	71	0.12	0.06	0.02	0.02	0.02	0.02	0	1	261630033	2842 Wyoming	Dearborn	Wayne Co	MI	5
62	12	0.12	0.11	0.11	0.05	0.05	0.05	0	1	390910008	1215 Greenwood St.	Bellefontaine	Logan Co	OH	5
63	55	0.11	0.1	0.02	0.02	0.03	0.02	0	1	360713001	Ballard Road, Town Of Wallkill		Orange Co	NY	2
64	55	0.11	0.1	0.02	0.02	0.03	0.02	0	2	360713001	Ballard Road, Town Of Wallkill		Orange Co	NY	2
65	53	0.11	0.08	0.02	0.02	0.01	0.01	0	1	180970076	230 South Girls School Road	Indianapolis (Remainder)	Marion Co	IN	5
66	44	0.11	0.08	0.01	0.01	0.02	0.03	0	2	470930027	2522 Burnside St Knoxville Tn 37921	Knoxville	Knox Co	TN	4
67	55	0.11	0.1	0.03	0.04	0.04	0.02	0	2	171630010	13th & Tudor	East Saint Louis	St. Clair Co	IL	5
68	58	0.11	0.09	0.02	0.02	0.02	0.03	0	1	470930027	2522 Burnside St Knoxville Tn 37921	Knoxville	Knox Co	TN	4
69	60	0.1	0.08	0.03	0.03		0.03	0	1	60250005	1029 Ethel St, Calexico High School	Calexico	Imperial Co	CA	9
70	58	0.1	0.05	0.02	0.02	0.03	0.02	0	2	60371103	1630 N Main St, Los Angeles	Los Angeles	Los Angeles Co	CA	9
71	56	0.1	0.06	0.01	0.02	0.02	0.02	0	2	171193007	54 N. Walcott	Wood River	Madison Co	IL	5
72	12	0.1	0.1	0.1	0.1	0.1	0.1	0	1	132150011	Columbus, Cusseta Rd.	Columbus	Muscogee Co	GA	4
73	57	0.1	0.08	0.04	0.03	0.03	0.02	0	1	170310026	735 W. Harrison	Chicago	Cook Co	IL	5
74	12	0.1	0.1	0.1	0.1	0.1	0.1	0	2	130890003	D.M.R.C.,3073 Panthersville Rd.,Decatur	Atlanta	DeKalb Co	GA	4
75	88	0.09	0.06		0.03	0.03	0.03	0	1	401159007	56651 East 30 Road	Picher	Ottawa Co	OK	6
76	56	0.08	0.06	0.02	0.03	0.03	0.02	0	1	170316003	1500 Maybrook Dr.	Maywood	Cook Co	IL	5
77	56	0.08	0.05	0.02	0.02	0.02	0.02	0	1	170313301	60th St. & 74th Ave.	Summit	Cook Co	IL	5
78	58	0.07	0.02	0.01	0.01	0.01	0.01	0	1	484790016	West End Washington St.	Laredo	Webb Co	TX	6
79	12	0.07	0.04	0.01	0.05	0.04	0.02	0	1	390350050	Grant Rd.	Cleveland	Cuyahoga Co	OH	5

	Pb (ug/m3)														
	24-Hour Values			Quarterly Averages					Monitor Number						
Row #	# Obs	1st Max	2nd Max	Qtr 1	Qtr 2	Qtr 3	Qtr 4	# Exceed		Site ID	Site Address	City	County	State	EPA Region
80	36	0.07	0.06	0.01		0.02	0.03	0	1	261630027	7701 W. Jefferson	Detroit	Wayne Co	MI	5
81	57	0.07	0.04	0.02	0.01	0.01	0.02	0	1	60371301	11220 Long Beach Blvd., Lynwood	Lynwood	Los Angeles Co	CA	9
82	59	0.07	0.06	0.01	0.01	0.02	0.02	0	1	60719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino Co	CA	9
83	54	0.07	0.07	0.03	0.01	0.02	0.02	0	1	421010449	Castor And Delaware Avenues	Philadelphia	Philadelphia Co	PA	3
84	56	0.06	0.06	0.01	0.01	0.01	0.01	0	1	420030002	520 Orchard St Pgh., Pa 15202	Avalon	Allegheny Co	PA	3
85	59	0.06	0.05	0.04	0.04	0.04	0.04	0	1	421290007	435 Donner Avenue - Community Center	Monessen	Westmoreland Co	PA	3
86	22	0.06	0.04	0.01	0.02			0	1	450430009	400 Dozier Street	Georgetown	Georgetown Co	SC	4
87	55	0.06	0.04	0.01	0	0	0.01	0	1	450430010	Butts St & Merriman Rd	Georgetown	Georgetown Co	SC	4
88	15	0.06	0.05	0.02				0	2	261630033	2842 Wyoming	Dearborn	Wayne Co	MI	5
89	57	0.06	0.03	0.01	0.01	0.01	0.01	0	3	60658001	5888 Mission Blvd., Rubidoux	Rubidoux (West Riverside)	Riverside Co	CA	9
90	59	0.06	0.04	0.01	0.01	0.02	0.01	0	1	170310001	4500 W. 123rd St.	Alsip	Cook Co	IL	5
91	56	0.06	0.04	0.01	0.01	0.02	0.01	0	1	170313103	4743 Mannheim Rd.	Schiller Park	Cook Co	IL	5
92	58	0.06	0.05	0.01	0.01	0	0	0	1	450470001	1118 Phoenix Street	Greenwood	Greenwood Co	SC	4
93	47	0.05	0.05	0.02	0.02	0.01	0.01	0	1	481410033	301 East Robinson	El Paso	El Paso Co	TX	6
94	57	0.05	0.05	0.05	0.05	0.05	0.05	0	1	291892003	77 Hunter Ave	Clayton	St. Louis Co	MO	7
95	60	0.05	0.04	0.02	0.02	0.02	0.02	0	1	170310052	4850 Wilson Ave.	Chicago	Cook Co	IL	5
96	12	0.05	0.03	0.02	0.02	0.02	0.01	0	1	390290022	500 Maryland	East Liverpool	Columbiana Co	OH	5
97	59	0.05	0.04	0.02	0.02	0.01	0.02	0	1	470931017	1613 Vermont Avenue	Knoxville	Knox Co	TN	4
98	57	0.05	0.05	0.05	0.05	0.05	0.05	0	2	291892003	77 Hunter Ave	Clayton	St. Louis Co	MO	7
99	55	0.04	0.03	0.02	0.01	0.01	0.01	0	1	481410058	5050 A Yvette Drive	El Paso	El Paso Co	TX	6
100	55	0.04	0.04	0	0	0.01	0.02	0	1	721270003	Baldorioty De Castro Av.	San Juan	San Juan Municipio	PR	2
101	53	0.04	0.02	0.01	0.01	0.01	0.01	0	1	271231003	2179 University Avenue	St. Paul	Ramsey Co	MN	5
102	58	0.04	0.04	0.02	0.02	0.01	0.01	0	1	360470122	Jhs 126 424 Leonard St	New York	Kings Co	NY	2
103	52	0.04	0.01	0.01	0.01	0.01	0.01	0	1	360713004	27 Industrial Drive	Middletown	Orange Co	NY	2
104	12	0.04	0.04	0.02	0.02	0.02	0.02	0	1	390290019	1250 George, Columbiana Port Authority	East Liverpool	Columbiana Co	OH	5
105	53	0.04	0.02	0.01	0.01	0.01	0.01	0	1	270370020	12821 Pine Bend Trail	Rosemount	Dakota Co	MN	5
106	12	0.04	0.03	0.01	0.02	0.03	0.02	0	2	390350061	W. Side Of West 3rd.	Cleveland	Cuyahoga Co	OH	5
107	56	0.04	0.03	0.01	0.01	0.01	0	0	6	401430172	700 N. Greenwood, On Osu At Tulsa Campus	Tulsa	Tulsa Co	OK	6
108	53	0.04	0.04	0.04	0.04	0.04	0.04	0	1	420450002	Front St & Norris St	Chester	Delaware Co	PA	3
109	55	0.04	0.02	0.01	0.01	0.01	0.01	0	1	60375005	7201 W. Westchester Parkway	Los Angeles	Los Angeles Co	CA	9
110	60	0.04	0.04	0.01	0.01	0.01	0.01	0	2	60651003	7002 Magnolia Ave., Riverside	Riverside	Riverside Co	CA	9
111	49	0.04	0.02	0.01	0.01	0.01	0.01	0	1	170314201	750 Dundee Road	Northbrook	Cook Co	IL	5
112	12	0.04	0.03	0.01	0.02	0.02	0.02	0	1	390350042	3136 Lorain Ave., F.S. 4	Cleveland	Cuyahoga Co	OH	5
113	50	0.03	0.03	0.03	0.03	0.03	0.03	0	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha Co	WV	3
114	12	0.03	0.03	0.01	0.01	0.02	0.02	0	1	390290020	2220 Michigan	East Liverpool	Columbiana Co	OH	5
115	88	0.03	0.03		0.03	0.03	0.03	0	1	401159005	2151 South 570 Road	Picher	Ottawa Co	OK	6
116	87	0.03	0.03		0.03	0.03	0.03	0	2	401159005	2151 South 570 Road	Picher	Ottawa Co	OK	6
117	88	0.03	0.03		0.03	0.03	0.03	0	1	401159006	723 East Second Street	Picher	Ottawa Co	OK	6
118	88	0.03	0.03		0.03	0.03	0.03	0	1	401159008	58251 East 30 Road	Picher	Ottawa Co	OK	6
119	55	0.03	0.02	0.01	0	0.01	0.01	0	6	401430235	2443 South Jackson Avenue	Tulsa	Tulsa Co	OK	6

Appendix F

Revised Modeling Tables

Table 5-1
PSD Significant Impact Thresholds
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Value	Units
Particulate Matter (PM_{10})	24-hour	5	$\mu g/m^3$
	Annual	1	$\mu g/m^3$
Nitrogen Dioxide (NO_2)	Annual	1	$\mu g/m^3$
Lead (Pb)	Calendar quarter	0.03	$\mu g/m^3$

Note:
[1] Significance thresholds from FDEP Rule 62-210.200(279), http://www.dep.state.fl.us/legal/Rules/air/62-210/62-210.pdf.

Table 5-2
National and State Ambient Air Quality Standards and Allowable PSD Increments
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Federal Standard	Florida Standard	Hillsborough County Attainment Status[1]	Class II PSD Allowable Increments
Particulate Matter (PM_{10})	24-hour	150 $\mu g/m^3$	150 $\mu g/m^3$	Attainment	30 $\mu g/m^3$
	Annual	---	50 $\mu g/m^3$	Attainment	17 $\mu g/m^3$
Nitrogen Dioxide (NO_2)	Annual	0.053 ppm (100 $\mu g/m^3$)	0.053 ppm (100 $\mu g/m^3$)	Attainment	25 $\mu g/m^3$
Lead (Pb)	Rolling 3-Month	0.15 $\mu g/m^3$	0.15 $\mu g/m^3$	Attainment	-

Notes:

[1] Standard attainment status based on USEPA websites (www.epa.gov/air/oaqps/greenbk/index.html).

Table 5-3
Modeling Source Parameters - Point Sources
EnviroFocus Technologies, LLC
Tampa, Florida

Source ID	Source	Coordinates		Exit Flowrate		Diameter		Exit Velocity[1]	Temperature[2]		Stack Height	
		UTMx (m)	UTMy (m)	(ft^3/min)	(m^3/sec)	(in)	(m)	(m/sec)	(F)	(K)	(ft)	(m)
E16	Plastics Bin Vent	364,215	3,093,740	1,750	0.8	14	0.36	0.001	ambient	0	68.5	20.9
E15	Silo Bin Vent	364,195	3,093,833	650	0.3	16	0.41	0.001	ambient	0	35	10.7
E8	Breaker Scrubber Stack	364,176	3,093,758	25,700	12.1	42	1.07	13.6	ambient	0	130	39.6
E3	Refinery Combustion Stack A[3]	364,081	3,093,769	1000	0.5	17	0.43	3.2	450	505	89.25	27.2
E2	Refinery Combustion Stack B[3]	364,058	3,093,753	2000	0.9	24	0.61	3.2	450	505	54.11	16.5
E1	Refinery Combustion Stack C[3]	364,053	3,093,769	2000	0.9	24	0.61	3.2	450	505	54.76	16.7
E4	Combined Stack of Feed Dryer, Reverb Furnace and Blast Furnace	364,057	3,093,807	58886	27.8	60	1.52	15.2	150	339	130	39.6
E18	Propane Vaporizer	364,030	3,093,858	500	0.2	8	0.20	0.001	600	589	9	2.8
E6	Hygiene Baghouse and Stack	364,092	3,093,823	72000	34.0	60	1.52	18.6	150	339	130	39.6
E7	Torit Building Ventilation Torit Stack	364,134	3,093,819	195000	92.0	96	2.44	19.7	ambient	0	120	36.6
E9	Silo Bin Vent	364,181	3,093,742	650	0.3	16	0.41	0.001	ambient	0	70	21.3
E10	Silo Bin Vent	364,183	3,093,736	650	0.3	16	0.41	0.001	ambient	0	70	21.3
E12	Geneartor Exhaust	364,179	3,093,737	3845	1.8	8	0.20	56.0	941	778	11.2	3.4
E11	Soda Ash Slurry Exhaust	364,184	3,093,740	800	0.4	8	0.20	11.6	300	422	20.2	6.2
-	Former Refinery Baghouse Stack	364,040	3,093,779	17905	8.5	26	0.66	24.7	98.6	310	60.5	18.4

Notes:

[1] Stacks with rain caps were modeled with a 0.001 m/sec exit velocity.

[2] Exhaust at ambient temperature was modeled with a zero K temperature.

[3] Stack A represented two co-located stacks with flowrate and stack area equivalent of two stacks.
Stacks B and C each represented four co-located stacks with flowrate and stack area equivalent of four stacks.

Table 5-4
Modeling Source Parameters - Volume Sources
EnviroFocus Technologies, LLC
Tampa, Florida

Source	Coordinates		Height (m)	Width (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
	UTMx (m)	UTMy (m)					
Plastics Plant	364217	3093782	17.4	40	8.7	9.30	8.09

Table 5-5
Physical and Modeling Parameters of Road Emissions
EnviroFocus Technologies, LLC
Tampa, Florida

Source	Parameters		
Truck Traffic on Paved Roads	Length	10,730	feet
		3,271	meters
	Width	2.59	meters
	Adjusted width[1]	8.59	meters
	Maximum vehicle height in Florida	14	feet
		4	meters
	Release height	4.1	meters
	Height of volume source	8.23	meters
	Initial vertical dimension	3.80	meters

Note:
[1] Adjusted road widths were calculated based on the maximum vehicle width in Florida and the Texas Natural Resource Conservation Commission (TNRCC) modeling guidelines (TNRCC 1999).

Reference:
Texas Natural Resources Conservation Commission (TNRCC). 1999. *Air Quality Modeling Guidelines*. February. (http://www.tnrcc.state.tx.us/permitting/airperm/nsr_permits/admt/guid_docs/rg25.pdf)

Florida Department of Transportation.2006.*Commercial Motor Vehicle Manual*. (http://www.dot.state.fl.us/mcco/downloads/TruckingManual%20-%206th%20Edition%202006%20english.pdf)

Table 5-6
Modeling Source Parameters - Line/Volume Sources
EnviroFocus Technologies, LLC
Tampa, Florida

Road ID	Coordinates		Modeling Parameters		
	UTM_x (meters)	UTM_y (meters)	Release Height (meters)	Initial Lateral Dimension (meters)	Initial Vertical Dimension (meters)
1	364096	3093833	4.11	4.00	3.83
1	364109	3093837	4.11	4.00	3.83
1	364123	3093842	4.11	4.00	3.83
1	364137	3093848	4.11	4.00	3.83
1	364144	3093852	4.11	4.00	3.83
1	364152	3093857	4.11	4.00	3.83
1	364164	3093860	4.11	4.00	3.83
1	364176	3093859	4.11	4.00	3.83
1	364189	3093856	4.11	4.00	3.83
1	364202	3093853	4.11	4.00	3.83
1	364215	3093850	4.11	4.00	3.83
1	364228	3093846	4.11	4.00	3.83
2	364168	3093807	4.11	4.00	3.83
2	364164	3093819	4.11	4.00	3.83
2	364160	3093831	4.11	4.00	3.83
2	364160	3093846	4.11	4.00	3.83
2	364167	3093860	4.11	4.00	3.83
2	364174	3093873	4.11	4.00	3.83
2	364182	3093886	4.11	4.00	3.83
2	364179	3093880	4.11	4.00	3.83
2	364174	3093866	4.11	4.00	3.83
2	364170	3093858	4.11	4.00	3.83
2	364167	3093854	4.11	4.00	3.83
2	364158	3093853	4.11	4.00	3.83
2	364148	3093855	4.11	4.00	3.83
2	364139	3093865	4.11	4.00	3.83
2	364137	3093876	4.11	4.00	3.83
2	364137	3093887	4.11	4.00	3.83
3	364137	3093888	4.11	4.00	3.83
3	364137	3093876	4.11	4.00	3.83
3	364136	3093863	4.11	4.00	3.83
3	364134	3093855	4.11	4.00	3.83
3	364128	3093848	4.11	4.00	3.83
3	364116	3093841	4.11	4.00	3.83
3	364101	3093837	4.11	4.00	3.83
3	364087	3093832	4.11	4.00	3.83
3	364073	3093828	4.11	4.00	3.83
3	364059	3093823	4.11	4.00	3.83
3	364044	3093818	4.11	4.00	3.83
3	364030	3093814	4.11	4.00	3.83
3	364016	3093809	4.11	4.00	3.83
3	364002	3093805	4.11	4.00	3.83
3	363988	3093804	4.11	4.00	3.83
3	363979	3093811	4.11	4.00	3.83
3	363975	3093819	4.11	4.00	3.83
3	363973	3093828	4.11	4.00	3.83
3	363977	3093822	4.11	4.00	3.83
3	363984	3093810	4.11	4.00	3.83
3	363991	3093798	4.11	4.00	3.83
3	363995	3093785	4.11	4.00	3.83
3	363999	3093773	4.11	4.00	3.83
3	364003	3093760	4.11	4.00	3.83
13	364114	3093824	4.11	4.00	3.83
13	364122	3093827	4.11	4.00	3.83
13	364131	3093829	4.11	4.00	3.83
13	364145	3093832	4.11	4.00	3.83
13	364157	3093833	4.11	4.00	3.83
13	364168	3093833	4.11	4.00	3.83
13	364180	3093833	4.11	4.00	3.83
4	364137	3093888	4.11	4.00	3.83
4	364137	3093876	4.11	4.00	3.83
4	364137	3093863	4.11	4.00	3.83
4	364134	3093855	4.11	4.00	3.83
4	364128	3093848	4.11	4.00	3.83
4	364116	3093841	4.11	4.00	3.83
4	364101	3093837	4.11	4.00	3.83
4	364087	3093832	4.11	4.00	3.83
4	364073	3093828	4.11	4.00	3.83
4	364056	3093823	4.11	4.00	3.83
4	364044	3093819	4.11	4.00	3.83
4	364030	3093814	4.11	4.00	3.83
4	364016	3093810	4.11	4.00	3.83
4	364007	3093804	4.11	4.00	3.83
4	364000	3093797	4.11	4.00	3.83
4	363989	3093790	4.11	4.00	3.83
4	363976	3093792	4.11	4.00	3.83
4	363969	3093803	4.11	4.00	3.83
4	363970	3093813	4.11	4.00	3.83
4	363976	3093822	4.11	4.00	3.83
4	363983	3093832	4.11	4.00	3.83

Table 5-6
Modeling Source Parameters - Line/Volume Sources
EnviroFocus Technologies, LLC
Tampa, Florida

Road ID	Coordinates		Modeling Parameters		
	UTM_x (meters)	UTM_y (meters)	Release Height (meters)	Initial Lateral Dimension (meters)	Initial Vertical Dimension (meters)
4	363984	3093830	4.11	4.00	3.83
4	363978	3093817	4.11	4.00	3.83
4	363972	3093804	4.11	4.00	3.83
4	363966	3093791	4.11	4.00	3.83
4	363960	3093778	4.11	4.00	3.83
14	363960	3093743	4.11	4.00	3.83
14	363963	3093746	4.11	4.00	3.83
14	363975	3093737	4.11	4.00	3.83
14	363978	3093725	4.11	4.00	3.83
14	363995	3093716	4.11	4.00	3.83
14	364008	3093713	4.11	4.00	3.83
14	364021	3093710	4.11	4.00	3.83
14	364035	3093707	4.11	4.00	3.83
14	364048	3093704	4.11	4.00	3.83
14	364061	3093701	4.11	4.00	3.83
14	364073	3093703	4.11	4.00	3.83
14	364085	3093706	4.11	4.00	3.83
14	364098	3093709	4.11	4.00	3.83
14	364110	3093712	4.11	4.00	3.83
5	364137	3093888	4.11	4.00	3.83
5	364137	3093876	4.11	4.00	3.83
5	364137	3093864	4.11	4.00	3.83
5	364134	3093855	4.11	4.00	3.83
5	364128	3093848	4.11	4.00	3.83
5	364116	3093842	4.11	4.00	3.83
5	364102	3093838	4.11	4.00	3.83
5	364088	3093834	4.11	4.00	3.83
5	364075	3093829	4.11	4.00	3.83
5	364061	3093825	4.11	4.00	3.83
5	364047	3093821	4.11	4.00	3.83
5	364034	3093817	4.11	4.00	3.83
5	364020	3093813	4.11	4.00	3.83
5	364006	3093809	4.11	4.00	3.83
5	363995	3093799	4.11	4.00	3.83
5	363990	3093787	4.11	4.00	3.83
15	363955	3093818	4.11	4.00	3.83
15	363960	3093819	4.11	4.00	3.83
15	363967	3093828	4.11	4.00	3.83
15	363967	3093822	4.11	4.00	3.83
15	363966	3093808	4.11	4.00	3.83
15	363966	3093795	4.11	4.00	3.83
15	363968	3093783	4.11	4.00	3.83
15	363970	3093770	4.11	4.00	3.83
15	363971	3093757	4.11	4.00	3.83
15	363973	3093744	4.11	4.00	3.83
15	363976	3093734	4.11	4.00	3.83
15	363980	3093723	4.11	4.00	3.83
15	363989	3093718	4.11	4.00	3.83
15	364001	3093718	4.11	4.00	3.83
15	364013	3093714	4.11	4.00	3.83
15	364025	3093712	4.11	4.00	3.83
6	364137	3093888	4.11	4.00	3.83
6	364137	3093873	4.11	4.00	3.83
6	364137	3093858	4.11	4.00	3.83
6	364137	3093844	4.11	4.00	3.83
6	364133	3093834	4.11	4.00	3.83
6	364123	3093828	4.11	4.00	3.83
6	364113	3093824	4.11	4.00	3.83
16	363955	3093818	4.11	4.00	3.83
16	363955	3093818	4.11	4.00	3.83
16	363960	3093817	4.11	4.00	3.83
16	363965	3093806	4.11	4.00	3.83
16	363966	3093792	4.11	4.00	3.83
16	363968	3093778	4.11	4.00	3.83
16	363970	3093765	4.11	4.00	3.83
16	363971	3093751	4.11	4.00	3.83
16	363974	3093741	4.11	4.00	3.83
16	363977	3093731	4.11	4.00	3.83
16	363981	3093721	4.11	4.00	3.83
16	363994	3093715	4.11	4.00	3.83
16	364010	3093713	4.11	4.00	3.83
16	364026	3093710	4.11	4.00	3.83
7	363959	3093745	4.11	4.00	3.83
7	363966	3093756	4.11	4.00	3.83
7	363972	3093749	4.11	4.00	3.83
7	363977	3093736	4.11	4.00	3.83
7	363982	3093722	4.11	4.00	3.83
7	363995	3093716	4.11	4.00	3.83
7	364010	3093713	4.11	4.00	3.83
7	364025	3093711	4.11	4.00	3.83

Table 5-6
Modeling Source Parameters - Line/Volume Sources
EnviroFocus Technologies, LLC
Tampa, Florida

Road ID	Coordinates		Modeling Parameters		
	UTM_x (meters)	UTM_y (meters)	Release Height (meters)	Initial Lateral Dimension (meters)	Initial Vertical Dimension (meters)
7	364040	3093708	4.11	4.00	3.83
7	364055	3093705	4.11	4.00	3.83
7	364071	3093702	4.11	4.00	3.83
7	364084	3093705	4.11	4.00	3.83
7	364098	3093710	4.11	4.00	3.83
7	364111	3093715	4.11	4.00	3.83
10	363996	3093779	4.11	4.00	3.83
10	363993	3093788	4.11	4.00	3.83
10	363995	3093800	4.11	4.00	3.83
10	364008	3093807	4.11	4.00	3.83
10	364023	3093811	4.11	4.00	3.83
10	364038	3093816	4.11	4.00	3.83
10	364053	3093821	4.11	4.00	3.83
10	364068	3093825	4.11	4.00	3.83
10	364083	3093830	4.11	4.00	3.83
10	364098	3093834	4.11	4.00	3.83
10	364113	3093839	4.11	4.00	3.83
10	364128	3093843	4.11	4.00	3.83
10	364135	3093849	4.11	4.00	3.83
10	364140	3093857	4.11	4.00	3.83
10	364142	3093872	4.11	4.00	3.83
10	364142	3093888	4.11	4.00	3.83
11	363970	3093791	4.11	4.00	3.83
11	363974	3093796	4.11	4.00	3.83
11	363988	3093802	4.11	4.00	3.83
11	364002	3093807	4.11	4.00	3.83
11	364017	3093811	4.11	4.00	3.83
11	364032	3093815	4.11	4.00	3.83
11	364047	3093820	4.11	4.00	3.83
11	364062	3093824	4.11	4.00	3.83
11	364076	3093829	4.11	4.00	3.83
11	364091	3093833	4.11	4.00	3.83
11	364106	3093837	4.11	4.00	3.83
11	364121	3093842	4.11	4.00	3.83
11	364136	3093846	4.11	4.00	3.83
11	364141	3093857	4.11	4.00	3.83
11	364142	3093872	4.11	4.00	3.83
11	364142	3093888	4.11	4.00	3.83
8	364209	3093851	4.11	4.00	3.83
8	364195	3093854	4.11	4.00	3.83
8	364182	3093858	4.11	4.00	3.83
8	364169	3093861	4.11	4.00	3.83
8	364157	3093865	4.11	4.00	3.83
8	364147	3093874	4.11	4.00	3.83
8	364143	3093887	4.11	4.00	3.83
12	363955	3093818	4.11	4.00	3.83
12	363965	3093818	4.11	4.00	3.83
12	363974	3093818	4.11	4.00	3.83
12	363990	3093814	4.11	4.00	3.83
12	364005	3093809	4.11	4.00	3.83
12	364020	3093812	4.11	4.00	3.83
12	364034	3093816	4.11	4.00	3.83
12	364049	3093821	4.11	4.00	3.83
12	364064	3093826	4.11	4.00	3.83
12	364079	3093831	4.11	4.00	3.83
12	364094	3093835	4.11	4.00	3.83
12	364109	3093840	4.11	4.00	3.83
12	364123	3093845	4.11	4.00	3.83
12	364138	3093850	4.11	4.00	3.83
12	364142	3093860	4.11	4.00	3.83
12	364142	3093874	4.11	4.00	3.83
12	364142	3093888	4.11	4.00	3.83
9	364167	3093807	4.11	4.00	3.83
9	364163	3093821	4.11	4.00	3.83
9	364159	3093834	4.11	4.00	3.83
9	364155	3093847	4.11	4.00	3.83
9	364151	3093861	4.11	4.00	3.83
9	364147	3093874	4.11	4.00	3.83
9	364143	3093888	4.11	4.00	3.83

Table 5-7
Summary of Meteorological Data Completeness Analysis
EnviroFocus Technologies, LLC
Tampa, Florida

Year	Quarter	Completeness of Surface Meteorological Parameters					
		Wind Speed	Wind Direction	Temperature	Sky Cover	Ceiling Height	Joint Recovery
2001	1	100%	99.9%	100%	100%	100%	99.9%
	2	100%	99.4%	100%	100%	100%	99.4%
	3	100%	99.4%	99.8%	100%	100%	99.3%
	4	100%	99.2%	100%	100%	100%	99.2%
2002	1	100%	99.4%	100%	100%	100%	99.4%
	2	100%	99.7%	100%	100%	100%	99.7%
	3	100%	98.6%	100%	100%	100%	98.6%
	4	100%	99.3%	100%	100%	100%	99.3%
2003	1	100%	99.5%	100%	100%	100%	99.5%
	2	100%	98.8%	100%	100%	100%	98.8%
	3	100%	97.4%	100%	100%	100%	97.4%
	4	100%	97.7%	100%	100%	100%	97.7%
2004	1	99.9%	98.2%	99.9%	100%	100%	98.2%
	2	100%	98.4%	100%	100%	100%	98.4%
	3	100%	98.1%	100%	100%	100%	98.1%
	4	100%	96.6%	100%	100%	100%	96.6%
2005	1	100%	98.7%	100%	100%	100%	98.7%
	2	100%	97.7%	100%	100%	100%	97.7%
	3	100%	98.0%	100%	100%	100%	98.0%
	4	100%	99.4%	99.9%	100%	100%	99.3%

Table 5-8
Summary of Surface Parameters Values
EnviroFocus Technologies, LLC
Tampa, Florida

Land Use Type	Meteorology					Facility				
	Albedo	Bowen Ratio-Average	Bowen Ratio-Wet	Bowen Ratio-Dry	Surface Roughness	Albedo	Bowen Ratio-Average	Bowen Ratio-Wet	Bowen Ratio-Dry	Surface Roughness
Open Water	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.001
Low Intensity Residential	0.16	0.9	0.6	2.25	0.54	0.16	0.9	0.6	2.25	0.54
Medium Intensity Residential	0.17	1.2	0.8	2.625	0.77	0.17	1.2	0.8	2.625	0.77
High Intensity Residential	--	--	--	--	--	0.18	1.5	1	3	1
Commercial/Industrial/Transp (Site at Airport)	0.18	1.5	1	3	0.1	--	--	--	--	--
Bare Rock/Sand/Clay (Non-arid Region)	0.2	1.5	1	3	0.05	0.2	1.5	1	3	0.05
Evergreen Forest	0.12	0.55	0.25	1.05	1.3	0.12	0.55	0.25	1.05	1.3
Shrubland (Non-arid Region)	0.18	1.25	0.9	2.75	0.3	0.18	1.25	0.9	2.75	0.3
Grasslands/Herbaceous	0.18	0.9	0.45	2	0.1	0.18	0.9	0.45	2	0.1
Pasture/Hay	--	--	--	--	--	0.2	0.6	0.35	1.75	0.15
Urban/Recreational Grasses	0.15	0.6	0.35	1.75	0.02	0.15	0.6	0.35	1.75	0.02
Woody Wetlands	0.14	0.2	0.1	0.2	0.7	0.14	0.2	0.1	0.2	0.7
Emergent Herbaceous Wetlands	0.14	0.1	0.1	0.2	0.2	0.14	0.1	0.1	0.2	0.2

Table 5-9
Summary of Surface Moisture Conditions
EnviroFocus Technologies, LLC
Tampa, Florida

Year	Average Precipitation (in)	Moisture Condition
2001	38	dry
2002	59	wet
2003	50	average
2004	58	wet
2005	38	dry
	Precipitation (in)	
1978-2007	40	30th percentile
1978-2007	53	70th percentile

Table 5-10
Comparison of Surface Parameters at Facility and Meteorological Station
EnviroFocus Technologies, LLC
Tampa, Florida

Sector	Start (degree)	End (degree)	Meteorological Station Land Use[1]							Facility Land Use[2]							Relative Difference[3]						
			Albedo	Bowen Ratio					Surface Roughne	Albedo	Bowen Ratio					Surface Roughne	Albedo	Bowen Ratio					Surface Roughne
			2001-2005	2001	2002	2003	2004	2005	2001-2005	2001-2005	2001	2002	2003	2004	2005	2001-2005	2001-2005	2001	2002	2003	2004	2005	2001-2005
1	0	30	0.15	0.98	0.37	0.52	0.37	0.98	0.13	0.16	1.35	0.42	0.65	0.42	1.35	0.16	6%	37%	14%	25%	14%	37%	19%
2	30	60	0.15	0.98	0.37	0.52	0.37	0.98	0.13	0.16	1.35	0.42	0.65	0.42	1.35	0.37	6%	37%	14%	25%	14%	37%	193%
3	60	90	0.15	0.98	0.37	0.52	0.37	0.98	0.14	0.16	1.35	0.42	0.65	0.42	1.35	0.53	6%	37%	14%	25%	14%	37%	280%
4	90	120	0.15	0.98	0.37	0.52	0.37	0.98	0.11	0.16	1.35	0.42	0.65	0.42	1.35	0.51	6%	37%	14%	25%	14%	37%	380%
5	120	150	0.15	0.98	0.37	0.52	0.37	0.98	0.06	0.16	1.35	0.42	0.65	0.42	1.35	0.34	6%	37%	14%	25%	14%	37%	425%
6	150	180	0.15	0.98	0.37	0.52	0.37	0.98	0.20	0.16	1.35	0.42	0.65	0.42	1.35	0.21	6%	37%	14%	25%	14%	37%	6%
7	180	210	0.15	0.98	0.37	0.52	0.37	0.98	0.20	0.16	1.35	0.42	0.65	0.42	1.35	0.68	6%	37%	14%	25%	14%	37%	240%
8	210	240	0.15	0.98	0.37	0.52	0.37	0.98	0.16	0.16	1.35	0.42	0.65	0.42	1.35	0.83	6%	37%	14%	25%	14%	37%	417%
9	240	270	0.15	0.98	0.37	0.52	0.37	0.98	0.19	0.16	1.35	0.42	0.65	0.42	1.35	0.34	6%	37%	14%	25%	14%	37%	74%
10	270	300	0.15	0.98	0.37	0.52	0.37	0.98	0.14	0.16	1.35	0.42	0.65	0.42	1.35	0.24	6%	37%	14%	25%	14%	37%	65%
11	300	330	0.15	0.98	0.37	0.52	0.37	0.98	0.11	0.16	1.35	0.42	0.65	0.42	1.35	0.16	6%	37%	14%	25%	14%	37%	53%
12	330	360	0.15	0.98	0.37	0.52	0.37	0.98	0.15	0.16	1.35	0.42	0.65	0.42	1.35	0.18	6%	37%	14%	25%	14%	37%	20%

Notes:

[1] Meteorological data processed with surface characteristics around the meteorological station.

[2] Meteorological data processed with surface characteristics around the facility.

[3] Relative differences were calculated as (Facility-Met Station)/Met Station.

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
Main1	1	9.1	4	8.7	363996	3093766
					364007	3093728
					363983	3093721
					363972	3093759
Main2	1	9.1	4	8.6	364014	3093772
					364026	3093734
					364007	3093728
					363995	3093767
Main3	1	9.1	4	8.7	364037	3093789
					364059	3093717
					364033	3093709
					364011	3093781
Main4_1	1	9.1	4	16.7	364095	3093712
					364064	3093703
					364038	3093789
					364068	3093798
Main4_2	1	9.1	4	13.5	364069	3093792
					364063	3093811
					364099	3093822
					364105	3093803
Main4_3	1	9.1	4	16.7	364095	3093712
					364070	3093792
					364101	3093801
					364126	3093721
Main5	1	9.1	6	16.0	364154	3093818
					364160	3093797
					364155	3093795
					364175	3093731
					364126	3093716
					364100	3093801
Main6	1	9.1	6	14.4	364166	3093799
					364154	3093795
					364173	3093737
					364179	3093739
					364177	3093745
					364182	3093747
Main7	1	9.1	6	16.4	364204	3093834
					364193	3093830
					364199	3093809
					364165	3093799
					364185	3093734
					364231	3093748
Main8	1	9.1	4	8.8	364262	3093851
					364287	3093773

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364229	3093754
					364204	3093832
Main9	1	9.1	4	8.8	364292	3093860
					364316	3093782
					364288	3093772
					364263	3093851
Flat1	1	9.1	4	8.2	364059	3093717
					364061	3093711
					364046	3093706
					364044	3093712
Flat3_1	1	9.1	4	13.5	364098	3093822
					364111	3093826
					364117	3093807
					364104	3093803
Flat3_2	1	9.1	4	13.5	364118	3093807
					364114	3093819
					364129	3093824
					364132	3093812
E17-00	1	9.1	24	19.2	364225	3093745
					364225	3093745
					364226	3093744
					364226	3093744
					364227	3093744
					364227	3093743
					364227	3093742
					364227	3093742
					364227	3093741
					364226	3093741
					364226	3093740
					364225	3093740
					364225	3093740
					364224	3093740
					364223	3093740
					364223	3093741
					364223	3093741
					364222	3093742
					364222	3093742
					364222	3093743
					364223	3093744
					364223	3093744
					364223	3093744
					364224	3093745
E16-00	1	9.1	24	19.2	364215	3093742
					364216	3093742

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364216	3093742
					364217	3093741
					364217	3093741
					364217	3093740
					364217	3093740
					364217	3093739
					364217	3093738
					364217	3093738
					364216	3093737
					364216	3093737
					364215	3093737
					364214	3093737
					364214	3093737
					364213	3093738
					364213	3093738
					364213	3093739
					364213	3093740
					364213	3093740
					364213	3093741
					364213	3093741
					364214	3093742
					364214	3093742
E13-00	1	9.1	24	19.2	364186	3093822
					364187	3093822
					364187	3093821
					364188	3093821
					364188	3093820
					364188	3093820
					364188	3093819
					364188	3093819
					364188	3093818
					364188	3093818
					364187	3093817
					364187	3093817
					364186	3093817
					364185	3093817
					364185	3093817
					364184	3093818
					364184	3093818
					364184	3093819
					364184	3093819
					364184	3093820
					364184	3093820
					364184	3093821

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364185	3093821
					364185	3093822
E14-00	1	9.1	24	19.2	364192	3093823
					364193	3093823
					364193	3093823
					364194	3093823
					364194	3093822
					364194	3093822
					364194	3093821
					364194	3093820
					364194	3093820
					364194	3093819
					364193	3093819
					364193	3093819
					364192	3093819
					364191	3093819
					364191	3093819
					364190	3093819
					364190	3093820
					364190	3093820
					364190	3093821
					364190	3093822
					364190	3093822
					364190	3093823
					364191	3093823
					364191	3093823
E15-00	1	9.1	24	9.1	364195	3093835
					364195	3093835
					364196	3093835
					364196	3093834
					364196	3093834
					364197	3093834
					364197	3093833
					364197	3093833
					364196	3093832
					364196	3093832
					364196	3093832
					364195	3093831
					364195	3093831
					364194	3093831
					364194	3093832
					364194	3093832
					364193	3093832
					364193	3093833

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364193	3093833
					364193	3093834
					364193	3093834
					364194	3093834
					364194	3093835
					364194	3093835
E9-00	1	9.1	24	19.8	364181	3093744
					364181	3093743
					364182	3093743
					364182	3093743
					364182	3093743
					364183	3093742
					364183	3093742
					364183	3093741
					364182	3093741
					364182	3093740
					364182	3093740
					364181	3093740
					364181	3093740
					364180	3093740
					364180	3093740
					364180	3093740
					364179	3093741
					364179	3093741
					364179	3093742
					364179	3093742
					364179	3093743
					364180	3093743
					364180	3093743
					364180	3093743
E10-00	1	9.1	24	19.8	364183	3093738
					364183	3093738
					364184	3093737
					364184	3093737
					364184	3093737
					364184	3093736
					364184	3093736
					364184	3093735
					364184	3093735
					364184	3093735
					364184	3093734
					364183	3093734
					364183	3093734
					364182	3093734

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364182	3093734
					364181	3093735
					364181	3093735
					364181	3093735
					364181	3093736
					364181	3093736
					364181	3093737
					364181	3093737
					364182	3093737
					364182	3093738
praxair	1	9.1	4	8.2	364283	3093885
					364282	3093870
					364255	3093871
					364255	3093886
propane	1	9.1	6	4.6	364036	3093870
					364036	3093888
					364027	3093888
					364027	3093854
					364032	3093854
					364032	3093870
STMWATER	1	9.1	4	2.0	364017	3093884
					364017	3093853
					363947	3093853
					363948	3093885
BLD9	1	8.1	30	6.1	364045	3093938
					364062	3093938
					364062	3093936
					364087	3093935
					364087	3093930
					364097	3093930
					364097	3093925
					364099	3093925
					364099	3093922
					364122	3093921
					364122	3093919
					364128	3093919
					364128	3093916
					364131	3093916
					364131	3093913
					364129	3093912
					364129	3093909
					364122	3093909
					364122	3093902
					364118	3093902

Table 5-11
Summary of Modeled Building Parameters
EnviroFocus Technologies, LLC
Tampa, Florida

Building ID	Number of Tiers	Elevation (meters)	Number of Corners	Height (meters)	UTMx (meters)	UTMy (meters)
					364118	3093900
					364112	3093900
					364112	3093898
					364100	3093898
					364100	3093897
					364044	3093898
					364044	3093903
					364040	3093903
					364040	3093921
					364044	3093921
PENT1	1	9.1	4	22.8	364083	3093784
					364080	3093791
					364086	3093792
					364088	3093785
PENT2	1	9.1	4	21.3	364080	3093766
					364078	3093773
					364088	3093776
					364091	3093769
PENT3	1	9.1	4	25.9	364083	3093756
					364080	3093766
					364090	3093769
					364094	3093759

Table 5-12
Results of Significant Impact Area Modeling
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	PSD Significant Impact Levels	Radius of Significant Impact Area (km)	
			Facility Land Use[2]	Met Station Land Use[3]
Particulate Matter (PM_{10})	24-hour	5 $\mu g/m^3$	0.9	0.9
	Annual	1 $\mu g/m^3$	0.8	0.7
Nitrogen Dioxide (NO_2)	Annual	1 $\mu g/m^3$	0.8	0.8
Lead (Pb)	Calendar quarter	0.03 $\mu g/m^3$	0.8	0.7

Notes:

[1] Standard attainment status based on USEPA websites (www.epa.gov/air/oaqps/greenbk/index.html).

[2] Meteorological data processed with surface characteristics around the facility.

[3] Meteorological data processed with surface characteristics around the meteorological station.

TABLE 5-13
Summary of Background Concentrations
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Value	Units	Monitor ID	Averaging Period
PM_{10}	76	$\mu g/m^3$	120570095[a]	24-hour
	29	$\mu g/m^3$	120570095[b]	annual
NO_2	13.2	$\mu g/m^3$	120573002[c]	annual
Lead	0.05	$\mu g/m^3$	Various[d]	quarterly

Notes:

[a] 6th highest monitored value during the period of 2003 to 2007.

[b] Highest monitored value during the period of 2003 to 2007.

[c] Highest monitored value during the period of 2004 to 2007, as the monitor was not in operation from 2001 to 2003.

[d] Highest monitored value from US monitors, after discounting source-specific monitors.

Table 5-14
Summary of Facilities Within 50 km of Significant Impact Area
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Distance from EFT (km)	Screening Total PM_{10} Emissions [a] (tpy)	Screening Total PM Emissions [a] (tpy)	Screening Total NOx Emissions [a] (tpy)	Screening Total Pb Emissions [a] (tpy)	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?
0490015	HARDEE POWER PARTNERS LIMITED	55	241	241	8093	0	NO	NO	NO	NO
0490041	CF INDUSTRIES, INC.	61	0	1.4			NO	NO	NO	NO
0490043	VANDOLAH POWER COMPANY, LLC	66	164	164	2016	0	NO	NO	NO	NO
0490340	SEMINOLE ELECTRIC COOPERATIVE, INC.	55	309	309	3550		NO	NO	NO	NO
0490343	OLDCASTLE LAWN AND GARDEN, INC.	56	0	1.2	37		NO	NO	NO	NO
0570001	JOHNSON CONTROLS BATTERY GROUP, INC	9.6	70	81	2.7	3.0	NO	NO	NO	NO
0570003	CF INDUSTRIES, INC.	4.7	0	8.4	9.2	0	NO	NO	NO	NO
0570005	CF INDUSTRIES, INC., PLANT CITY PHOS	33	0	549	159	0	NO	NO	NO	NO
0570006	YUENGLING BREWING CO.	9.6	0	3.2	0		NO	NO	NO	NO
0570013	CEMEX, INC.	15	0	5.0			NO	NO	NO	NO
0570014	EASTERN ASSOCIATED TERMINALS CO., LLC	6.3	0	95			NO	NO	NO	NO
0570016	CITGO PETROLEUM CORPORATION	7.4			20		NO	NO	NO	NO
0570018	FLORIDA ROCK INDUSTRIES, INC.	7.0	4	322	0	0	YES	NO	YES	NO
0570021	INTERNATIONAL SHIP REPAIR & MARINE SERV.	6.2	0	147	89	0	YES	NO	YES	NO
0570024	KINDER MORGAN OLP "C"	6.9	2	193			YES	NO	YES	NO
0570025	TRADEMARK NITROGEN CORP	3.4	0	1463	68		YES	NO	YES	NO
0570028	NEW NGC, INC.	19	0	236	137	0	NO	NO	NO	NO
0570031	HOLCIM (US) INC.	8.0	8	43			NO	NO	NO	NO
0570032	CEMEX, INC.	4.3	0	18			NO	NO	NO	NO
0570033	CSX TRANSPORTATION, INC.	5.2	0	145			YES	NO	YES	NO
0570041	FLORIDA HEALTH SCIENCES CTR, INC	8.2	0.6	1.2	15	0	NO	NO	NO	NO
0570047	FLORIDA ROCK INDUSTRIES INC	17	0	22			NO	NO	NO	NO
0570051	CF INDUSTRIES	6.4	0	13			NO	NO	NO	NO
0570052	FLORIDA ROCK INDUSTRIES	4.1	0	21			NO	NO	NO	NO
0570053	OLDCASTLE DBA PAVER SYSTEMS, LLC	9.9	0	0			NO	NO	NO	NO
0570055	CHEVRON U.S.A. INC.	20	0	0.1	5.8		NO	NO	NO	NO
0570056	GAF MATERIALS CORPORATION	6.9	0	130	0		NO	NO	NO	NO
0570061	TAMPA ARMATURE WORKS	2.6	0.3	2.3	15	0	NO	NO	NO	NO
0570065	CEMEX CONSTRUCTION MATERIALS LP	17	0	63	0		NO	NO	NO	NO
0570069	INDUSTRIAL GALVANIZERS AMERICA, INC.	4.4	0	51	0		NO	NO	NO	NO
0570077	VERLITE COMPANY	4.0	0	8.8	3.0	0	NO	NO	NO	NO
0570079	CEMEX	4.7	0	1.0			NO	NO	NO	NO
0570080	MARATHON PETROLEUM COMPANY LLC	5.1	0	0.6	7.6		NO	NO	NO	NO
0570081	TRANSMONTAIGNE PRODUCT SERVICES INC.	7.7			0		NO	NO	NO	NO
0570082	GULF SULPHUR SERVICES LTD., LLP	7.2	0	1.0	0		NO	NO	NO	NO
0570083	BP PRODUCTS NORTH AMERICA INC	6.6			0		NO	NO	NO	NO
0570085	CENTRAL FLORIDA PIPELINE	7.8			0		NO	NO	NO	NO
0570087	CORESLAB STRUCTURES(TAMPA),INC.	4.6	0	1.1	0		NO	NO	NO	NO
0570088	HALEY, JAMES A. VETERAN'S HOSPITAL TAMPA	11	0	0	0		NO	NO	NO	NO
0570089	ST. JOSEPH'S HOSPITAL	11	0.4	3.8	81	0.1	NO	NO	NO	NO
0570090	MASTER - HALCO, INC.	4.2	15	14	0		NO	NO	NO	NO
0570092	KINDER MORGAN PORT SUTTON TERMINAL, LLC	7.0	28	77			NO	NO	NO	NO
0570094	MOSAIC FERTILIZER, LLC	18	0	32			NO	NO	NO	NO
0570097	OLDCASTLE RETAIL, INC. D/B/A BONSAL AMER	4.3	0	30	6.6	0	NO	NO	NO	NO
0570100	GULF SULPHUR SERVICES LTD., LLP	7.6	0	6.0	0		NO	NO	NO	NO
0570103	CARGILL, INC. - GRAIN DIVISION	5.0	0	48			NO	NO	NO	NO

Table 5-14
Summary of Facilities Within 50 km of Significant Impact Area
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Distance from EFT (km)	Screening Total PM_{10} Emissions [a] (tpy)	Screening Total PM Emissions [a] (tpy)	Screening Total NOx Emissions [a] (tpy)	Screening Total Pb Emissions [a] (tpy)	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?
0570119	GULF COAST METALS, INC.	0.6	0	3.2	6.7		YES	YES	NO	NO
0570121	CEMEX	19	0	31			NO	NO	NO	NO
0570124	RINKER MATERIALS CORPORATION	29	0	1.0			NO	NO	NO	NO
0570136	VERLITE CO	4.4	0	30	0		NO	NO	NO	NO
0570141	US AIR FORCE (MACDILL AFB)	16	1.5	3	11	0	NO	NO	NO	NO
0570150	CARMEUSE LIME & STONE, INC.	9.2	0	8			NO	NO	NO	NO
0570160	BALL METAL BEVERAGE CONTAINER CORP.	9.6	0	0.9	0	0	NO	NO	NO	NO
0570163	GRIFFIN INDUSTRIES	2.6	0	0.0	0		NO	NO	NO	NO
0570171	SPEEDLING, INC.	33	0	0.8	7.9	0	NO	NO	NO	NO
0570180	FECP/CAST CRETE DIVISION	9.5	0	6			NO	NO	NO	NO
0570185	PREFERRED MATERIALS, INC.	4.3	0	15			NO	NO	NO	NO
0570220	HYDRO CONDUIT DIVISION OF RINKER	27	0	14			NO	NO	NO	NO
0570223	APAC-SOUTHEAST, INC CENTRAL FLORIDA DIV.	4.3	2.1	17	67	0	NO	NO	NO	NO
0570224	HARSCO CORPORATION	8.6	0	54	7.6	0	NO	NO	NO	NO
0570226	BRENNTAG MID-SOUTH, INC.	4.0	2.1	2.1			NO	NO	NO	NO
0570229	GENERAL CHEMICAL LLC	4.5	0	22			NO	NO	NO	NO
0570230	FLORIDA BRICK & CLAY CO	21	0	3.2			NO	NO	NO	NO
0570237	STANDARD CONCRETE	20	0	7.7			NO	NO	NO	NO
0570238	PREFERRED MATERIALS, INC., TAMPA KEYS	1.1	0	6.5			YES	NO	NO	NO
0570240	CEMEX	3.1	0	3.8			NO	NO	NO	NO
0570241	PREFERRED MATERIALS, INC., RIVERVIEW	9.5	0	3.0			NO	NO	NO	NO
0570247	CEMEX, INC.	9.9	0	0			NO	NO	NO	NO
0570249	GOLDEN ALUMINUM EXTRUSION - PLANT CITY,	22	0	13	39	0	NO	NO	NO	NO
0570251	CONAGRA FOODS, INC.	7.2	0	95			NO	NO	NO	NO
0570254	VERTIS, INC.	16	0	0	0	0	NO	NO	NO	NO
0570255	LEHIGH CEMENT COMPANY	7.8	0	3.8			NO	NO	NO	NO
0570259	CEMEX	4.8	0	4.0			NO	NO	NO	NO
0570260	TIN, INC. D/B/A TEMPLE-INLAND	3.8	0	5.7			NO	NO	NO	NO
0570262	CHROMALLOY CASTINGS TAMPA, CORPORATION	16	0	81	0	0	NO	NO	NO	NO
0570276	TARMAC AMERICA LLC	18	0	7.0			NO	NO	NO	NO
0570279	FLORIDA ROCK INDUSTRIES, INC.	9.0	0	22			NO	NO	NO	NO
0570280	CEMEX	3.2	0	2.0			NO	NO	NO	NO
0570281	TARMAC AMERICA LLC	28	0	3.9			NO	NO	NO	NO
0570289	MEDIA GENERAL OPERATIONS, INC.	8.1	0	2.6			NO	NO	NO	NO
0570290	E.A. MARIANI ASPHALT CO.	6.2	0	3.9	0		NO	NO	NO	NO
0570293	CORY PACKAGING, INC DBA MASTER PACKAGING	12		0	0	0	NO	NO	NO	NO
0570296	US FILTER RECOVERY SERVICES, INC.	25	0	2.2	22	0	NO	NO	NO	NO
0570297	DAVIS CONCRETE INC.	17	0	8.8			NO	NO	NO	NO
0570298	TAMPA BULK SERVICES INC.	20	0	45			NO	NO	NO	NO
0570299	MASONITE CORPORATION	2.4	0	67			YES	NO	YES	NO
0570318	CEMEX, INC.	26	0	0.8			NO	NO	NO	NO
0570320	DART CONTAINER CORPORATION OF FLORIDA	21	0	1.4	24	0	NO	NO	NO	NO
0570321	MANTUA MANUFACTURING CO.	1.5	0	0.9	13		YES	YES	NO	NO
0570324	TAMPA STEEL ERECTING COMPANY	5.1	0	30	0	0	NO	NO	NO	NO
0570340	HERITAGE PLASTICS SOUTH	15	0	7.7			NO	NO	NO	NO
0570342	ZIPPERER'S AGAPE MORTUARY SERVICE	29	0	0	0		NO	NO	NO	NO

Table 5-14
Summary of Facilities Within 50 km of Significant Impact Area
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Distance from EFT (km)	Screening Total PM_{10} Emissions [a] (tpy)	Screening Total PM Emissions [a] (tpy)	Screening Total NOx Emissions [a] (tpy)	Screening Total Pb Emissions [a] (tpy)	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?	Within 50 km of PM_{10} SIA and PM_{10} or PM Emissions over 20D?	Within 50 km of NO_X SIA and NOx Emissions over 20D ?
0570344	TAMPA TANK, INC.	6.1	0	44			NO	NO	NO	NO
0570364	MANNA PRO CORPORATION	1.4	23	21			YES	NO	NO	NO
0570370	PARADISE, INC.	25	0	0.2	3		NO	NO	NO	NO
0570374	SOUTHERN GROUTS & MORTARS	22	0	5.1			NO	NO	NO	NO
0570377	KINDER MORGAN BULK TERMINAL, INC	7.8	0	98			NO	NO	NO	NO
0570388	WARREN EQUPMENT, INC.	29	0	1.6			NO	NO	NO	NO
0570401	FLORIDA MEGA-MIX, INC.	0.6	0	7.7			YES	NO	NO	NO
0570405	WINGFOOT COMMERCIAL TIRE SYSTEMS, LLC	2.4	0	10			NO	NO	NO	NO
0570412	VULCAN/ICA COMPANY	8.6	0	0	0		NO	NO	NO	NO
0570415	NEBRASKA PRINTING COMPANY INC.	13	0	0	0		NO	NO	NO	NO
0570431	FLORIDA MORTUARY	6.0	0	0	0		NO	NO	NO	NO
0570437	NEWSPAPER PRINTING COMPANY, INC.	16	0	0	0		NO	NO	NO	NO
0570438	FLORIDA GAS TRANSMISSION COMPANY	31	0	2.3	46		NO	NO	NO	NO
0570446	TRADEMARK METALS RECYCLING, LLC	7.7	0	681			YES	NO	YES	NO
0570455	PASCO TERMINALS, INC.	8.5	0	4.8	3.7	0	NO	NO	NO	NO
0570459	BAUSCH & LOMB INCORPORATED	12	0	0.6	18	0	NO	NO	NO	NO
0570460	JAMES HARDIE BUILDING PRODUCTS, INC.	23	0	33	62	0	NO	NO	NO	NO
0570461	BLACKLIDGE EMULSIONS INCORPORATED	4.6	0	4.2	4.1		NO	NO	NO	NO
0570466	TRANSFLO TERMINAL SERVICES, INC. (TTSI)	4.1	0	15			NO	NO	NO	NO
0570474	T-R DRUM & FREIGHT CO.	32	1.0	3.4	0.2		NO	NO	NO	NO
0570477	MARTIN GAS SALES, INC.	8.7	2.3	2.6			NO	NO	NO	NO
0570480	UNIVERSITY OF SOUTH FLORIDA (USF)	11	0	0	0	0	NO	NO	NO	NO
0570854	HILLSBOROUGH COUNTY SOLID WASTE MGT DEPT	29	0	0	0		NO	NO	NO	NO
0571016	CUSTOM FABRICATION, INC.	29	0	5.5			NO	NO	NO	NO
0571021	DUNCO ROCK & GRAVEL INC	23	4.6	4.6			NO	NO	NO	NO
0571029	WEYERHAEUSER COMPANY	27	0	3.5	4.6		NO	NO	NO	NO
0571130	BRANDON REGIONAL MEDICAL CENTER	11	0	0	0		NO	NO	NO	NO
0571147	SMITHFIELD PACKING COMPANY, INC.	26	0	4.2	60		NO	NO	NO	NO
0571151	WEYERHAEUSER COMPANY	4.6	0	9.3	13	0	NO	NO	NO	NO
0571160	EXPORT METALS, LLC	7.8		0			NO	NO	NO	NO
0571173	FLORIDA CEMETERIES	11		0			NO	NO	NO	NO
0571205	STOROPACK, INC.	1.0	0	0	0		NO	NO	NO	NO
0571209	APAC-SOUTHEAST, INC CENTRAL FLORIDA DIV.	7.2	0	38	0		NO	NO	NO	NO
0571214	MARTIN MARIETTA MATERIALS, INC.	8.5		81			NO	NO	NO	NO
0571217	SEA 3 OF FLORIDA, INC.	7.8	0	5.0	51		NO	NO	NO	NO
0571227	MASONITE CORPORATION	2.5	0	0			NO	NO	NO	NO
0571240	CARGILL INC.- SALT DIVISION	5.6	0	64	0		NO	NO	NO	NO
0571242	NEW NGC, INC., D/B/A NATIONAL GYPSUM COM	18	0	88	96	0	NO	NO	NO	NO
0571255	HYNICK TRUCKING INC.	0.9	0	0			NO	NO	NO	NO
0571258	HANSON PIPE & PRECAST, INC.	17	0	4.5			NO	NO	NO	NO
0571263	COMMERCIAL CONCRETE PRODUCTS, INC.	32	3.6	3.6			NO	NO	NO	NO
0571268	QWEST COMMUNICATIONS INTERNATIONAL INC.	3.7	0	0	0	0	NO	NO	NO	NO
0571269	H. LEE MOFFITT CANCER CENTER	12	0	0	0	0	NO	NO	NO	NO
0571274	MARIGOLD LAND COMPANY	7.3	0	91			NO	NO	NO	NO
0571279	FLORIDA GAS TRANSMISSION COMPANY	12	0	3.5	50		NO	NO	NO	NO
0571286	AMC INDUSTRIES	8.3	0	23			NO	NO	NO	NO

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0571289	TRADEMARK METALS RECYCLING LLC	7.5		0			NO	NO	NO	NO
0571294	KUEI TYAN LLC/PREMIUM PROCESSORS, INC.	5.1		3.0			NO	NO	NO	NO
0571298	MODTECH HOLDINGS, INC.	23		5.7			NO	NO	NO	NO
0571301	L.V. THOMPSON, INC. (TAMCO)	3.0	0	0	0		NO	NO	NO	NO
0571303	TARMAC	25	0	0			NO	NO	NO	NO
0571307	CEMEX CONSTRUCTION MATERIAL L.P.	7.8	0	99	23	0	NO	NO	NO	NO
0571312	HENDRY CORPORATION	6.7	0	5.1	0		NO	NO	NO	NO
0571314	GAETANO CACCIATORE, INC.	7.6	0	57			NO	NO	NO	NO
0571317	FLORIDA BLOCK & READY MIX LAND CO. LLC	5.4	0	0			NO	NO	NO	NO
0571320	HILLSBOROUGH COUNTY WATER DEPARTMENT	25		18	18		NO	NO	NO	NO
0571321	PORT SUTTON ENVIROFUELS, LLC	7.1	68	68	98	0	NO	NO	NO	NO
0571323	FARKAS LAND CLEARING & DEVELOPMENT	21	0	44	67		NO	NO	NO	NO
0571325	GARDEN OF MEMORIES, INC.	10		0			NO	NO	NO	NO
0571326	SEPARATION TECHNOLOGIES, LLC	19		15	52		NO	NO	NO	NO
0571328	MISENER MARINE CONSTRUCTION, INC.	18	0	24	0		NO	NO	NO	NO
0571334	RINKER MATERIALS	27		0			NO	NO	NO	NO
0571337	TAMPA PAVEMENT CONSTRUCTORS, INC	3.8		52			NO	NO	NO	NO
0571339	TRINITY MATERIALS, LLC	7.2	0	240	115	0	YES	NO	YES	NO
0571341	YBOR FUNERAL AND CREAMTION CENTER	3.4		3.7			NO	NO	NO	NO
0571342	BLACKLIDGE EMULSIONS, INC.	6.5	0	1.0	0		NO	NO	NO	NO
0571347	DOUBLE BRANCH LUMBER COMPANY	26	0	19			NO	NO	NO	NO
0571348	D.H. GRIFFIN WRECKING CO., INC.	52	0	0	0		NO	NO	NO	NO
0571349	GEORGE BERNICO/PALLET SERVICES, INC	21	0	14	21		NO	NO	NO	NO
0810001	COASTAL TERMINALS LLC	40	7.1	7.1	40	0	NO	NO	NO	NO
0810004	KINDER MORGAN PORT MANATEE TERMINAL, LLC	40	0	12			NO	NO	NO	NO
0810011	FLORIDA CEMENT (FL ROCK INDUSTRIES, INC)	40	5.0	77		0	NO	NO	NO	NO
0810024	FLORIDA POWER & LIGHT COMPANY	40	4.3	5.1	28	0	NO	NO	NO	NO
0810045	MANATEE COUNTY GOVERNMENT - ANIMAL SERV	51		0.6	2.9		NO	NO	NO	NO
0810053	EASTERN CEMENT CORP	40	11	11			NO	NO	NO	NO
0810059	TARMAC AMERICA LLC	50	0	1.0			NO	NO	NO	NO
0810063	AJAX PAVING INDUSTRIES, INC.	41	0	17	0	0	NO	NO	NO	NO
0810067	ATLAS-TRANSOIL INTERNATIONAL, INC.	39	0	21	0		NO	NO	NO	NO
0810089	KINDER MORGAN BULK TERMINALS, INC.	40	0	4.5			NO	NO	NO	NO
0810183	ILLINOIS TOOL WORKS	42	0	2.3			NO	NO	NO	NO
0810213	UNITED STATES ENVIROFUELS, LLC	40	0	0	0	0	NO	NO	NO	NO
0810215	GULFSTREAM NATURAL GAS SYSTEM LLC	40	7.3	0	73		NO	NO	NO	NO
1010002	VITALITY FOODSERVICE INC	49	50	50	1.2		NO	NO	NO	NO
1010005	FLORIDA ROCK INDUSTRIES, INC.	53	0	0			NO	NO	NO	NO
1010017	FLORIDA POWER CORPDBAPROGRESS ENERGY FL	47	0.9	8894	0	0	YES	NO	YES	NO
1010018	CEMEX CONSTRUCTION MATERIALS, L.P.	43	0	0.2			NO	NO	NO	NO
1010027	AJAX PAVING INDUSTRIES, INC.	33	0	20	0		NO	NO	NO	NO
1010035	CEMEX, INC.	41	0	0.3			NO	NO	NO	NO
1010036	CEMEX CONSTRUCTION MATERIALS, L.P.	41	0	0.3			NO	NO	NO	NO
1010038	B.E.T.-ER MIX, INC.	54	0	0.3			NO	NO	NO	NO
1010041	APAC- SOUTHEAST, INC., CENTRAL FL. DIV	35	0	15	0		NO	NO	NO	NO
1010042	SCI FUNERAL SERVICES OF FLORIDA INC	52	0	1.7	5.2		NO	NO	NO	NO

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Tampa, Florida

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1010045	HODGES FAMILY FUNERAL HOME.	45		0.3	4.4		NO	NO	NO	NO
1010071	PASCO COGEN LIMITED	49	0	22	405	0	NO	NO	NO	NO
1010075	OLDCASTLE COASTAL CONCRETE PRODUCTS	35	0	0.3			NO	NO	NO	NO
1010076	CENTRAL STATE AGGREGATES LLC	36	1	6.0			NO	NO	NO	NO
1010326	PREFERRED MATERIALS INC	33	0	0.1			NO	NO	NO	NO
1010327	COASTAL LANDFILL DISPOSAL OF FL, LLC	54	0	49	0		NO	NO	NO	NO
1010335	PALL AEROPOWER CORP	43	0	0			NO	NO	NO	NO
1010349	THOMAS B. DOBIES FUNERAL HOME, INC.	50	0	0.2	0		NO	NO	NO	NO
1010360	M K G CARE INC	42	0	0.2	0		NO	NO	NO	NO
1010365	TRINITY MEMORIAL CEMETARY INC	34	0	1.4	0		NO	NO	NO	NO
1010378	PAW MATERIALS, INC.	32	0	41	45		NO	NO	NO	NO
1010492	HODGES FAMILY FUNERAL HOME INC./PET CREM	36	0	2.0	3.3		NO	NO	NO	NO
1010496	SURECRETE DESIGN PRODUCTS	50	0	0			NO	NO	NO	NO
1010498	VIKING POOLS, LLC	39	6.0	6.0			NO	NO	NO	NO
1030008	FLORIDA ROCK INDUSTRIES, INC.	39	0	21			NO	NO	NO	NO
1030017	CEMETERY MANAGEMENT, INC	34	0	1.4	4.6		NO	NO	NO	NO
1030018	PINELLAS COUNTY ANIMAL SERVICES	43	0	0.1	3.1		NO	NO	NO	NO
1030019	HONEYWELL INTERNATIONAL	35	0	0			NO	NO	NO	NO
1030020	SPCA TAMPA BAY	39	0	2.5	0.2		NO	NO	NO	NO
1030026	R.E. PURCELL CONSTRUCTION CO., INC.	38	0.4	21	39		NO	NO	NO	NO
1030032	CEMEX, INC.	36	0	33			NO	NO	NO	NO
1030035	DIRECTORS SERVICES INC	33	0	3.3	1.1		NO	NO	NO	NO
1030036	CEMEX CONSTRUCTION MATERIALS LP	38	0	33			NO	NO	NO	NO
1030037	CEMEX CONSTRUCTION MATERIALS, L.P.	28	0	0.9	0		NO	NO	NO	NO
1030044	SUNCOAST PAVING, INC.	45	13	13	27	0	NO	NO	NO	NO
1030045	CEMEX CONSTRUCTION MATERIALS, L.P.	39	0	13	0		NO	NO	NO	NO
1030047	SCI FUNERAL SERVICES OF FLORIDA INC	35		0.7	9.1		NO	NO	NO	NO
1030060	CITY OF LARGO - WWTP	32	0	49	6.2	0	NO	NO	NO	NO
1030063	FLORIDA ROCK INDUSTRIES, INC.	44	0	0.5			NO	NO	NO	NO
1030077	TIMES PUBLISHING CO.	35	3.5	7.6			NO	NO	NO	NO
1030078	FLORIDA ROCK INDUSTRIES, INC.	30	0	0.9	0		NO	NO	NO	NO
1030085	FLORIDA ROCK INDUSTRIES, INC.	37	0	36			NO	NO	NO	NO
1030088	HERCULES OF FLORIDA, INC.	37	0	0			NO	NO	NO	NO
1030091	MORTON PLANT MEASE HEALTH CARE	41	2.1	2.1	80		NO	NO	NO	NO
1030095	BAYFRONT-ST. ANTHONY'S HEALTH CARE	34	2.8	1.3	18	0	NO	NO	NO	NO
1030096	CURLEW HILLS MEMORY GARDENS INC	38		0.1			NO	NO	NO	NO
1030107	CITY OF ST. PETERSBURG	34	0	0.4			NO	NO	NO	NO
1030112	CATALENT PHARMA SOLUTIONS, LLC	30	0	0	0		NO	NO	NO	NO
1030113	DAVIS CONCRETE, INC.	40	0	0.3	0		NO	NO	NO	NO
1030114	MI METALS, INC./METAL INDUSTRIES, INC.	29	0	18	8.3		NO	NO	NO	NO
1030118	SCHNELLER LLC	33	0		0		NO	NO	NO	NO
1030119	FILM TECHNOLOGIES INT, INC	36	0	0	0		NO	NO	NO	NO
1030124	HETRO CORPORATION	32	0	0			NO	NO	NO	NO
1030127	METAL CULVERTS, INC.	35	0.1	0.1	1.3		NO	NO	NO	NO
1030129	PINELLAS MEMORIAL PET CEMETERY	36	0	1.3	0.9		NO	NO	NO	NO
1030131	E JAMES REESE FUNERAL HOME	42	0	0	0		NO	NO	NO	NO

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1030132	ONESOURCE COIL COATERS, LLC.	32	0	3.5	9.2		NO	NO	NO	NO
1030136	PET ANGEL WORLD SERVICES (FLORIDA) LLC	36		0.7	2.9		NO	NO	NO	NO
1030139	PREFERRED MATERIALS INC	31	0	0			NO	NO	NO	NO
1030147	SONNY GLASBRENNER, INC.	31	3.2	47	43		NO	NO	NO	NO
1030153	HOWCO ENVIRONMENTAL SERVICES, INC.	38	0	0	0	0	NO	NO	NO	NO
1030165	JACOBSEN MANUFACTURING, INC.	31	0	0	0		NO	NO	NO	NO
1030166	IRWIN YACHT & MARINE CORP.	32	0	0	0		NO	NO	NO	NO
1030172	WATKINS YACHT, INC.	32	0	0	0		NO	NO	NO	NO
1030175	GAGNE WALLCOVERINGS	36	0	0	0		NO	NO	NO	NO
1030180	INTERPRINT, INC.	30	0		0	0	NO	NO	NO	NO
1030183	PATRICK MEDIA GROUP, INC.	33	0	0			NO	NO	NO	NO
1030209	TRANSITIONS OPTICAL, INC.	37	0	5.8			NO	NO	NO	NO
1030214	LIFE-LIKE ACQUISITIONS, INC.	40	0.8		8.6		NO	NO	NO	NO
1030216	CARPENTER TECHNOLOGY CORPORATION	32	15	15			NO	NO	NO	NO
1030217	ETERNAL REST FUNERAL/SUNCOAST CREM, INC.	37	0	2.0	1.7		NO	NO	NO	NO
1030218	M C GRAPHICS, INC., DBA, SANDY ALEXANDER	29	0	0	0		NO	NO	NO	NO
1030223	CATALINA YACHTS, MORGAN DIVISION	37	0	6.1			NO	NO	NO	NO
1030227	CITY OF CLEARWATER	32	0	0	0		NO	NO	NO	NO
1030228	CITY OF CLEARWATER	40	0	0	0		NO	NO	NO	NO
1030229	CITY OF CLEARWATER	33	0	0	0		NO	NO	NO	NO
1030230	CITY OF DUNEDIN	38	0	0	0		NO	NO	NO	NO
1030231	CITY OF LARGO	32	0	0	0		NO	NO	NO	NO
1030232	PINELLAS COUNTY GOVERNMENT	46	0	0	0		NO	NO	NO	NO
1030233	PINELLAS COUNTY GOVERNMENT	42	0	0	0		NO	NO	NO	NO
1030234	PINELLAS COUNTY GOVERNMENT	39	0	23	6.4	0	NO	NO	NO	NO
1030235	CITY OF ST. PETERSBURG	33	0	0	0		NO	NO	NO	NO
1030236	CITY OF ST. PETERSBURG	28	0	0	0		NO	NO	NO	NO
1030237	CITY OF ST. PETERSBURG	40	0	0	0		NO	NO	NO	NO
1030238	CITY OF ST. PETERSBURG	41	0	0	0		NO	NO	NO	NO
1030239	KARDOL INC.	34	0	0			NO	NO	NO	NO
1030240	COX TARGET MEDIA, INC.	38	0	0	0		NO	NO	NO	NO
1030248	NEW YORK DRY CLEANERS & TAILORS	42	0	0	0		NO	NO	NO	NO
1030250	NTU ELECTRONICS, INC.	37				0.06	NO	NO	NO	NO
1030280	HOME BUILDING MATERIALS, INC.	34	0	0			NO	NO	NO	NO
1030282	ANDERSON-MCQUEEN COMPANY	40	0	2.5	2.3		NO	NO	NO	NO
1030288	BAY LINEN, INC.	32	0	0.6	14		NO	NO	NO	NO
1030443	LORAD CHEMICAL CORPORATION	34			2.4		NO	NO	NO	NO
1030473	LIGHTHOUSE FUNERAL SERVICES, LLC	31		3.0	2.2		NO	NO	NO	NO
1030480	DUCKWORTH STEEL BOATS, INC.	43	0				NO	NO	NO	NO
1030488	AAA PRINTING INC	36			0		NO	NO	NO	NO
1030501	ITW FIBRE GLASS-EVERCOAT	34	49	85			NO	NO	NO	NO
1030509	COX TARGET MEDIA, INC	30			9.8		NO	NO	NO	NO
1030510	MARSHFIELD DOORSYSTEMS, INC.	36	0	3.0			NO	NO	NO	NO
1030512	VETERANS FUNERAL CARE	32		2.2	0.7		NO	NO	NO	NO
1030516	RICHARD E. SORENSEN FUNERAL HOME INC.	33		1.9	1.9		NO	NO	NO	NO
1030518	LANTMANNEN UNIBAKE USA, INC.	35		0			NO	NO	NO	NO

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1030527	GULFSTREAM NATURAL GAS, L.L.C.	24	0	0	0		NO	NO	NO	NO
1050015	US BEVERAGE PACKING LAKELAND PLANT	36	0	1.1	21	0	NO	NO	NO	NO
1050021	ASHLAND INC.	48	0.6	0.6	4.8		NO	NO	NO	NO
1050034	MOSAIC FERTILIZER LLC	39	0	0.9	0	0	NO	NO	NO	NO
1050046	MOSAIC FERTILIZER, LLC	46	272	377	276	0	NO	NO	NO	NO
1050047	AGRIFOS MINING, L.L.C.	35	0	557	311		NO	NO	NO	NO
1050053	MOSAIC FERTILIZER, LLC	47	99	461	143		NO	NO	NO	NO
1050055	MOSAIC FERTILIZER LLC	48	0.3	770	209	0	NO	NO	NO	NO
1050059	MOSAIC FERTILIZER LLC	36	107	1224	550		YES	NO	YES	NO
1050066	K.C. INDUSTRIES, L.L.C. (PREV KAISER)	38	0	16			NO	NO	NO	NO
1050073	RINKER MATERIALS OF FLORIDA INC	48	0	38			NO	NO	NO	NO
1050081	THE QUIKRETE COMPANIES, INC.	48	0.3	11	0		NO	NO	NO	NO
1050095	LAKELAND REGIONAL MEDICAL CENTER	44	0	2.0	27	0	NO	NO	NO	NO
1050097	ARRMAZ CUSTOM CHEMICALS	45	0	1.9	1.6	0	NO	NO	NO	NO
1050099	AOC, L.L.C.	40	36	38	46		NO	NO	NO	NO
1050100	HEXION SPECIALTY CHEMICALS, INCORPORATED	47	0	0.9	17	0	NO	NO	NO	NO
1050114	CEMEX CONSTRUCTION MATERIALS, L.P.	35	0	0.4			NO	NO	NO	NO
1050125	CHEMICAL LIME CO. OF ALABAMA, INC.	35	4.8	94	22		NO	NO	NO	NO
1050127	JUICE BOWL PRODUCTS	46	0	0.8	109		NO	NO	NO	NO
1050134	HEATH FUNERAL CHAPEL, INC.	45	0	0.1	0.6		NO	NO	NO	NO
1050139	SCHWARZ PARTNERS	38	0	12	0		NO	NO	NO	NO
1050143	CITY OF LAKELAND	41	0	3.0			NO	NO	NO	NO
1050148	FLANDERS ELECTRIC MOTOR SERVICE, INC	47	0	0.3	1.3		NO	NO	NO	NO
1050151	CENTRAL FLORIDA HOT MIX, A DIV. OF LANE	49	7.9	21	27		NO	NO	NO	NO
1050157	PURINA MILLS, LLC.	38	28	41			NO	NO	NO	NO
1050169	METALCOAT INC OF FLORIDA	41	0	0.3	2.5	0	NO	NO	NO	NO
1050174	PEPPERIDGE FARM, INC	41	0	1.0	35		NO	NO	NO	NO
1050177	PUBLIX SUPER MARKETS	37	0	6.9			NO	NO	NO	NO
1050192	CARPENTER CO., INSULATION DIVISION	33	0	0	0		NO	NO	NO	NO
1050197	CEMEX CONSTRUCTION MATERIALS, L.P.	39	0	0			NO	NO	NO	NO
1050210	AMERICOAT CORPORATION	47			0		NO	NO	NO	NO
1050215	WOOD MULCH PRODUCTS, INC.	50	0	23	26		NO	NO	NO	NO
1050217	POLK POWER PARTNERS, L.P.	51	0	0	880		NO	NO	NO	NO
1050226	POP'S PAINTING, INC.	35	0	1.3			NO	NO	NO	NO
1050227	CENTRAL FLORIDA CREMATORY OF POLK CO.	44	0	1.7	0		NO	NO	NO	NO
1050230	KEY AUTOMOTIVE OF FLORIDA, INC.	34	0	19			NO	NO	NO	NO
1050254	CTL DISTRIBUTION, INC.	45	0	11			NO	NO	NO	NO
1050283	HENRY COMPANY	49	0	9.5			NO	NO	NO	NO
1050294	CITY OF LAKELAND	47		0			NO	NO	NO	NO
1050312	MASTER CONTAINERS, INC.	41	0	1.5	16	0	NO	NO	NO	NO
1050314	SUPERMAG, LLC	48	0.1	0.6			NO	NO	NO	NO
1050316	MCGEE TIRE STORES, INC.	50	0	9.3			NO	NO	NO	NO
1050319	CLARK ENVIRONMENTAL INC	39	0	30	99		NO	NO	NO	NO
1050320	KEYMARK CORP OF FLORIDA	40		1.7	17		NO	NO	NO	NO
1050324	WASTEQUIP MANUFACTURING CO	47	0	0			NO	NO	NO	NO
1050325	SOUTHERN BAKERIES, INC.	41		81	0		NO	NO	NO	NO

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1050330	FORT MEADE FOREST PRODUCTS	47	10	21	9.7		NO	NO	NO	NO
1050341	TURNER COATINGS INC.	39	20	21	11		NO	NO	NO	NO
1050354	LEW HALL AND ASSOCIATES	43		0.5	1.2		NO	NO	NO	NO
1050364	RUBBER APPLICATIONS	38	0	1.0			NO	NO	NO	NO
1050365	LAKELAND ANIMAL NUTRITION INC.	47	0	4.3			NO	NO	NO	NO
1050369	MORGAN TRUCK BODY, LLC	50		0.1	1.7		NO	NO	NO	NO
1050375	FIBERTEK INSULATION LLC	41	0	80	0		NO	NO	NO	NO
1050390	CONRAD YELVINGTON DISTRIBUTORS, INC.	45	7.0	7.0			NO	NO	NO	NO
1050393	KINDER MORGAN OPERATING LP "C"	46	22	45			NO	NO	NO	NO
1050394	LASTING PAWS PET CREMATION, INC.	40	0	0.6	2.5		NO	NO	NO	NO
1050395	TBEI, INC.	35	0	0	0		NO	NO	NO	NO
1050400	THE LANE CONSTRUCTION CORPORATION	41	10	33	17		NO	NO	NO	NO
7770073	APAC-SOUTHEAST INC., CENTRAL FL DIVISION	31	4.5	18	26		NO	NO	NO	NO
7770262	ANGELO'S AGGREGATE MATERIALS	39	0	8.0			NO	NO	NO	NO
7770473	CONRAD YELVINGTON DISTRIBUTORS	3.8	0	81			YES	NO	YES	NO
7771101	WOODRUFF & SONS, INC.	1.1	5.1	13	5.7		YES	YES	NO	NO
7774801	FLORIDA SOIL CEMENT, LLC	37	0	0			NO	NO	NO	NO
7774804	CENTRAL FLORIDA HOT MIX, A DIV OF LANE C	49	6.1	26	15		NO	NO	NO	NO
7775019	INDEPENDENCE RECYCLING INC	50	0	0			NO	NO	NO	NO
7775055	WOODRUFF & SONS, INC.	43	7.3	7.3	3.9		NO	NO	NO	NO
7775089	WOODRUFF & SONS, INC.	41	0.6	7.6	0	0	NO	NO	NO	NO
7775092	ANGELO'S RECYCLED MATERIALS, INC.	15		0			NO	NO	NO	NO
7775159	WOODRUFF & SONS, INC.	0.7	7.0	7.0			YES	NO	NO	NO
7775202	THE LANE CONSTRUCTION CORPORATION	43	1.3	3.7	0		NO	NO	NO	NO
7775209	HAYWARD BAKER, INC.	45	0	1.3			NO	NO	NO	NO
7775229	CRUSH-IT, INC.	3.8	0	0	0		NO	NO	NO	NO
7775350	THE LANE CONSTRUCTION CORPORATION	42	0	0	0		NO	NO	NO	NO
7775375	SUMMERS CONCRETE CONTRACTING, INC	30	0	0			NO	NO	NO	NO
7775424	AJAX PAVING INDUSTRIES, INC.	8.3	0	0			NO	NO	NO	NO
7775493	PRINCE CONTRACTING COMPANY, INC	3.3	0	0			NO	NO	NO	NO

Note:
[a] Duplicate records are included.
[b] Once duplicate records are removed, the emissions fall below 20D.

Table 5-15
Summary of Lead AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
0570127	CITY OF TAMPA	1_103	360200	3092210	0.91	5.67E-03	61	430	22	1.28
		1_104	360200	3092210	0.91	5.67E-03	61	430	22	1.28
		1_105	360200	3092210	0.91	5.67E-03	61	430	22	1.28
		1_106	360200	3092210	0.91	5.67E-03	61	430	22	1.28
0570261	HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.	2_1	369380	3092690	16	8.19E-03	67	416	22	1.55
		2_2	369380	3092690	16	8.19E-03	67	416	22	1.55
		2_3	369380	3092690	16	8.19E-03	67	416	22	1.55
1010056	PASCO COUNTY	3_1	347110	3139210	15	1.10E-02	84	394	25	1.43
		3_2	347110	3139210	15	1.10E-02	84	394	25	1.43
		3_3	347110	3139210	15	1.10E-02	84	394	25	1.43
1030117	PINELLAS CO. BOARD OF CO. COMMISSIONERS	4_1	335270	3084310	2.7	2.90E-02	50	405	22	2.59
		4_2	335270	3084310	2.7	2.90E-02	50	405	22	2.59
		4_3	335270	3084310	2.7	2.90E-02	50	405	22	2.59
1050003	LAKELAND ELECTRIC	5_8	409260	3103020	42	8.63E-04	47	523	26	4.88
1050233	TAMPA ELECTRIC COMPANY	6_1	402440	3067360	42	3.74E-03	46	444	23	5.79
0570001	JOHNSON CONTROLS BATTERY GROUP, INC	7_2	359900	3102500	14	6.55E-03	11	308	10	0.91
		7_5	359900	3102500	14	1.61E-03	11	350	42	0.24
		7_14	359900	3102500	14	6.04E-04	24	311	15	0.25
		7_15	359900	3102500	14	8.05E-04	21	311	12	0.30
		7_17	359900	3102500	14	2.65E-03	10	316	11	0.82
		7_18	359900	3102500	14	7.06E-03	10	305	6.1	1.22
		7_20	359900	3102500	14	1.00E-02	9.4	314	14	1.22
		7_22	359900	3102500	14	5.64E-03	12	311	11	0.82
		7_41	359900	3102500	14	5.04E-05	12	589	4.8	0.12
		7_42	359900	3102500	14	1.89E-03	21	380	18	0.40
		7_43	359900	3102500	14	7.56E-04	12	350	13	0.30
		7_33	359900	3102500	14	3.62E-03	9.1	316	14	0.61
		7_34	359900	3102500	14	6.76E-03	15	315	16	0.76
		7_35	359900	3102500	14	6.30E-04	11	311	14	0.41
		7_45	359900	3102500	14	3.00E-02	15	303	15	0.76
0570089	ST. JOSEPH'S HOSPITAL	8_2	353300	3095900	10	2.32E-03	24	478	13	0.58
0570249	GOLDEN ALUMINUM EXTRUSION - PLANT CITY,	9_11	385600	3097000	46	1.61E-06	24	308	15	1.01
		9_14	385600	3097000	46	2.70E-06	23	439	10	1.22
		9_15	385600	3097000	46	1.15E-06	6.7	422	10	0.76
0570460	JAMES HARDIE BUILDING PRODUCTS, INC.	10_4	387060	3089520	25	1.55E-06	9.1	519	15	0.61
1030095	BAYFRONT-ST. ANTHONY'S HEALTH CARE	11_2	338040	3072120	11	1.26E-03	10.7	333	41	0.61
1030250	NTU ELECTRONICS, INC.	12_1	328910	3083790	3.4	1.59E-03	7.9	300	13	0.61

Table 5-15
Summary of Lead AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
0570001	JOHNSON CONTROLS BATTERY GROUP, INC	13_46[a]	359900	3102500	13.53	0.006674	15.2	305	24	0.61
		13_47[a]	359900	3102500	13.53	0.00187	11.9	318	13	0.46
0570039	TAMPA ELECTRIC COMPANY	14_1	363150	3074910	2	1.29E-02	149	419	35	7.3
		14_2	363150	3074910	2	1.27E-02	149	325	27	7.3
		14_3	363150	3074910	2	1.31E-02	149	426	16	7.3
		14_4	363150	3074910	2	1.39E-02	149	326	18	7.3
		14_5	363150	3074910	2	3.53E-03	23	771	19	4.3
		14_6	363150	3074910	2	3.53E-03	23	771	19	4.3
		14_7	363150	3074910	2	7.56E-04	11	816	28	3.4
0570119	GULF COAST METALS, INC.	15_5	364700	3093600	6	6.05E-03	15	365	20	1.2

Note:
[a] Stack information provided in an email from FDEP on January 27, 2009.

Table 5-16
Summary of NO_2 AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
0570008	MOSAIC FERTILIZER, LLC	1_4	364590	3082380	1.16	2.01E+00	46	340	13	2.3
		1_5[a]	364590	3082380	1.16	1.27E+00	46	340	10	2.4
		1_6[a]	364590	3082380	1.16	1.80E+00	46	350	13	2.7
		1_7[a]	364590	3082380	1.16	3.23E-02	38	329	11	2.4
		1_43	364590	3082380	1.16	6.41E+00	6.1	489	16	1.2
		1_55	364590	3082380	1.16	2.52E+00	41	315	15	2.1
		1_78	364590	3082380	1.16	8.18E-01	38	339	20	1.8
		1_103	364590	3082380	1.16	8.18E-01	38	339	17	1.8
0570039	TAMPA ELECTRIC COMPANY	2_1	363150	3074910	2	3.76E+02	149	419	35	7.3
		2_2	363150	3074910	2	3.72E+02	149	325	27	7.3
		2_3	363150	3074910	2	3.63E+02	149	426	16	7.3
		2_4	363150	3074910	2	3.27E+02	149	326	18	7.3
		2_5	363150	3074910	2	5.63E+01	23	771	19	4.3
		2_6	363150	3074910	2	5.63E+01	23	771	19	4.3
		2_7	363150	3074910	2	1.61E+01	11	816	28	3.4
0570040	TAMPA ELECTRIC COMPANY	3_20	361100	3087500	0.87	2.91E+00	46	373	18	5.8
		3_21	361100	3087500	0.87	2.91E+00	460	373	18	5.8
		3_22	361100	3087500	0.87	2.91E+00	46	373	18	5.8
		3_23	361100	3087500	0.87	2.91E+00	46	266	0.15	65
		3_24	361100	3087500	0.87	2.91E+00	46	373	18	5.8
		3_25	361100	3087500	0.87	2.91E+00	46	373	18	5.8
		3_26	361100	3087500	0.87	2.91E+00	46	373	18	5.8
0570127	CITY OF TAMPA	4_103	360200	3092210	0.91	4.88E+00	61	430	22	1.3
		4_104	360200	3092210	0.91	4.88E+00	61	430	22	1.3
		4_105	360200	3092210	0.91	4.88E+00	61	430	22	1.3
		4_106	360200	3092210	0.91	4.88E+00	61	430	22	1.3
0570261	HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.	5_1	369380	3092690	16	7.36E+00	67	416	22	1.6
		5_2	369380	3092690	16	7.36E+00	67	416	22	1.6
		5_3	369380	3092690	16	7.36E+00	67	416	22	1.6
0570373	CITY OF TAMPA-WASTEWATER DEPT.	6_1[a]	364000	3089500	4.61	2.24E-01	23	375	25	0.9
		6_2[a]	364000	3089500	4.61	1.83E-01	23	375	9	1.5
		6_12[a]	364000	3089500	4.61	8.55E-02	15	755	29	0.5
		6_17	364000	3089500	4.61	1.31E+00	11	661	28	0.70

Table 5-16
Summary of NO_2 AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		6_18	364000	3089500	4.61	1.31E+00	11	661	28	0.70
0810010	FLORIDA POWER & LIGHT (PMT)	7_1	367150	3054230	16.4	3.27E+02	152	446	24	8.3
		7_2	367150	3054230	16.4	3.27E+02	152	436	25	8.0
		7_3 [a]	367150	3054230	16.4	1.29E-02	5	650	48	0.4
		7_5	367150	3054230	16.4	2.98E+00	37	875	32	6.7
		7_6	367150	3054230	16.4	2.98E+00	37	368	18	5.8
		7_7	367150	3054230	16.4	2.98E+00	37	368	18	5.8
		7_8	367150	3054230	16.4	2.98E+00	37	368	18	5.8
1010056	PASCO COUNTY	8_1	347110	3139210	15	9.65E+00	84	394	25	1.4
		8_2	347110	3139210	15	9.65E+00	84	394	25	1.4
		8_3	347110	3139210	15	9.65E+00	84	394	25	1.4
		8_5	347110	3139210	15	3.78E-02	9.1	450	5.8	0.30
1030011	FLORIDA POWER CORPDBAPROGRESS ENERGY FL	9_1	343870	3082690	0	6.63E+01	91	429	36	2.7
		9_2	343870	3082690	0	4.65E+01	91	425	31	2.7
		9_3	343870	3082690	0	7.80E+01	91	408	34	3.4
		9_4	343870	3082690	0	2.77E-01	9.1	541	5.2	0.9
		9_5	343870	3082690	0	6.28E+01	14	772	21	5.5
		9_6	343870	3082690	0	6.28E+01	14	772	21	5.5
		9_7	343870	3082690	0	6.28E+01	14	772	21	5.5
		9_8	343870	3082690	0	6.28E+01	14	772	21	5.5
		9_38	343870	3082690	0	1.41E+01	37	361	21	5.5
		9_39	343870	3082690	0	1.41E+01	37	361	21	5.5
		9_40	343870	3082690	0	1.41E+01	37	361	21	5.5
		9_41	343870	3082690	0	1.41E+01	37	361	21	5.5
		9_42	343870	3082690	0	1.47E+01	37	835	35	6.7
1030012	FLORIDA POWER CORPDBAPROGRESS ENERGY FL	10_4	336620	3098660	1.5	3.44E+01	17	728	28	4.6
		10_5	336620	3098660	1.5	3.44E+01	17	728	28	4.6
		10_6	336620	3098660	1.5	3.84E+01	17	728	28	4.6
		10_7	336620	3098660	1.5	3.84E+01	17	728	28	4.6
1030013	FLORIDA POWER CORPDBAPROGRESS ENERGY FL	11_1	338850	3071420	0.61	2.84E+01	12	755	6.4	7.0
		11_2	338850	3071420	0.61	2.92E+01	12	755	6.4	7.0
		11_3	338850	3071420	0.61	2.69E+01	12	755	6.4	7.0
		11_4	338850	3071420	0.61	2.60E+01	12	755	6.4	7.0
1030117	PINELLAS CO. BOARD OF CO. COMMISSIONERS	12_1	335270	3084310	2.7	2.59E+01	50	405	22	2.6

Table 5-16
Summary of NO_2 AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		12_2	335270	3084310	2.7	2.59E+01	50	405	22	2.6
		12_3	335270	3084310	2.7	2.58E+01	50	405	22	2.6
		12_14 [b]								
1050003	LAKELAND ELECTRIC	13_3	409260	3103020	42	1.94E+01	50	444	6.4	3.0
		13_4	409260	3103020	42	4.17E+01	50	444	6.7	3.0
		13_5	409260	3103020	42	1.84E+01	9.4	700	31	3.6
		13_6	409260	3103020	42	1.84E+01	9.4	700	31	3.6
		13_8	409260	3103020	42	1.22E+01	47	523	26	4.9
1050004	LAKELAND ELECTRIC	14_1	408790	3106860	42	6.67E+01	46	409	25	2.7
		14_2	408790	3106860	42	1.09E+01	6.1	653	23	0.79
		14_3	408790	3106860	42	1.09E+01	6.1	653	23	0.79
		14_4	408790	3106860	42	2.81E+01	11	755	24	4.1
		14_5	408790	3106860	42	4.21E+01	48	409	22	3.2
		14_6	408790	3106860	42	3.21E+02	76	348	25	5.5
		14_12 [a,c]	408790	3106860	42	7.79E-01	3	755	141	0.1
		14_28	408790	3106860	42	3.30E+01	26	864	25	8.5
1050233	TAMPA ELECTRIC COMPANY	15_1	402440	3067360	42	1.78E+01	46	444	23	5.8
		15_3	402440	3067360	42	5.18E-01	23	464	15	1.1
		15_4 [a]	402440	3067360	42	5.42E-02	61	355	18	0.8
		15_9	402440	3067360	42	3.72E+00	35	876	18	8.8
		15_10	402440	3067360	42	3.72E+00	35	876	18	8.8
		15_13	402440	3067360	42	3.84E+00	35	876	48	5.5
		15_14	402440	3067360	42	3.84E+00	35	876	48	5.5
0570025	TRADEMARK NITROGEN CORP	16_1	367300	3092600	8	1.96E+00	15	450	33	0.52
0570119	GULF COAST METALS, INC.	17_4 [b]								
		17_5	364700	3093600	6	4.79E-02	15	365	20	1.2
		17_6	364700	3093600	6	7.18E-02	15	365	20	1.2
0570223	APAC-SOUTHEAST, INC CENTRAL FLORIDA DIV.	18_2	364000	3098100	20	1.51E+00	10	436	19	1.4
		18_101 [d]	364000	3098100	20	4.03E-01	3.0	322	45	0.15
0570321	MANTUA MANUFACTURING CO.	19_2	364700	3092500	4	3.68E-01	6	1033	4	0.23
0570286	TAMPA BAY SHIPBUILDING & REPAIR COMPANY	20_5 [d]	358000	3089000	0.03	5.41E+00	3.0	322	45	0.15
0570442	GULF MARINE REPAIR CORPORATION	21_3 [e]								
0571290	TARMAC AMERICA, LLC (TITAN AMERICA BUS.)	22_9 [d]	359940	3087810	2	7.19E+00	2.1	322	45	0.15

Table 5-16
Summary of NO_2 AAQS Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		22_10 [d]	359940	3087810	2	7.19E+00	2.1	322	45	0.15
0571316	FLORIDA ENVIRONMENTAL RESOURCES CORP	23_1 [e]								
7771101	WOODRUFF & SONS, INC.	24_2 [d]	363510	3092970	5	1.63E-01	3.0	322	45	0.15

Note:

[a] Modeled actual emissions, as potential or allowable emissions are not available in the FDEP inventory.

[b] Not modeled as these sources are not in operation, according to emails from FDEP on June 18 and July 24, 2008.

[c] Used the stack temperaturea and flow rate of a typical 500 HP engine: 900 degree F and 3500 acfm, approved by FDEP in an email on January 29, 2009.

[d] Stack information provided in an email from FDEP on January 27, 2009.

[e] Not modeled as these sources, which are missing stack parameters, are minor sources and outside the significant impact area.

Table 5-17
Summary of PM_{10} AAQS and Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
0570008	MOSAIC FERTILIZER, LLC	post-baseline	1_7	364590	3082380	0	1.51E+00	1.51E+00	38	329	11	2.4
		post-baseline	1_43	364590	3082380	0	1.64E+00	1.64E+00	6.1	489	16	1.2
		post-baseline	1_55	364590	3082380	0	1.39E+00	1.46E-01	41	315	15	2.1
		post-baseline	1_66[a]	364590	3082380	0	8.63E-03	1.46E-01	2.4	389	8.0	0.1
		post-baseline	1_67[a]	364590	3082380	0	8.63E-03	3.91E-01	2.4	389	8.0	0.1
		post-baseline	1_68[a]	364590	3082380	0	8.63E-03	1.39E+00	2.4	389	8.0	0.1
		post-baseline	1_78	364590	3082380	0	1.64E+00	7.81E-02	41	339	20	1.8
		post-baseline	1_103	364590	3082380	0	1.64E+00	7.81E-02	38	339	17	1.8
		post-baseline	1_51	364590	3082380	0	1.32E-01	1.50E-01	9.1	299	13	1.1
		post-baseline	1_52	364590	3082380	0	1.32E-01	1.26E-02	12	298	11	0.46
		post-baseline	1_53	364590	3082380	0	3.57E-01	1.69E-02	15	304	12	0.76
		post-baseline	1_58	364590	3082380	0	3.57E-02	5.04E-02	9.1	299	16	0.37
		post-baseline	1_59	364590	3082380	0	5.47E-02	5.04E-02	14	299	16	0.37
		post-baseline	1_60	364590	3082380	0	1.04E-01	5.04E-02	23	299	12	0.58
		post-baseline	1_61[a]	364590	3082380	0	1.21E-02	1.69E-02	2.4	389	8.0	0.1
		post-baseline	1_63	364590	3082380	0	9.49E-03	1.64E+00	9.1	316	5.3	0.24
		post-baseline	1_74	364590	3082380	0	1.69E-02	6.68E-03	7.3	313	3.1	0.52
		post-baseline	1_79	364590	3082380	0	6.62E-03	1.51E-02	20	305	1.7	0.46
		post-baseline	1_80	364590	3082380	0	1.50E-02	2.60E-01	26	305	2.3	0.46
		post-baseline	1_81	364590	3082380	0	1.12E-01	1.64E+00	4.6	305	17	0.64
0570018	FLORIDA ROCK INDUSTRIES, INC.	post-baseline	2_1	357890	3090700	1.2	1.55E-01	1.55E-01	30	298	12	0.49
		post-baseline	2_2	357890	3090700	1.2	1.55E-01	1.55E-01	30	298	12	0.49
		post-baseline	2_3	357890	3090700	1.2	3.53E-01	3.53E-01	31	298	20	0.58
		post-baseline	2_5	357890	3090700	1.2	4.60E-03	3.91E-01	30	298	12	0.76
		post-baseline	2_6	357890	3090700	1.2	1.90E-01	1.94E-01	45	298	13	0.52
		post-baseline	2_7	357890	3090700	1.2	1.90E-01	1.94E-01	45	298	13	0.52
		post-baseline	2_8	357890	3090700	1.2	1.90E-01	1.94E-01	45	298	13	0.52
		post-baseline	2_9	357890	3090700	1.2	1.55E-01	1.55E-01	52	298	26	0.34
		post-baseline	2_12	357890	3090700	1.2	6.47E-01	6.48E-01	25	298	24	0.70
		post-baseline	2_13	357890	3090700	1.2	1.10E+00	1.10E+00	25	298	19	1.0
		post-baseline	2_16	357890	3090700	1.2	1.09E+00	1.10E+00	25	298	19	1.0
		post-baseline	2_17	357890	3090700	1.2	4.20E-01	4.21E-01	27	298	27	0.34
		post-baseline	2_18	357890	3090700	1.2	4.86E-01	4.86E-01	4.9	298	17	0.73
		post-baseline	2_19	357890	3090700	1.2	1.10E+00	1.10E+00	25	298	19	1.0
		post-baseline	2_20	357890	3090700	1.2	4.20E-01	4.21E-01	17	298	17	0.67
		post-baseline	2_21	357890	3090700	1.2	4.86E-01	4.86E-01	9.1	298	17	0.73
		post-baseline	2_23	357890	3090700	1.2	2.59E-01	2.60E-01	15	298	11	0.67
		post-baseline	2_24	357890	3090700	1.2	2.59E-01	2.60E-01	15	298	11	0.67

Table 5-17
Summary of PM_{10} AAQS and Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		post-baseline	2_25	357890	3090700	1.2	2.59E-01	2.60E-01	22	298	81	0.24
		post-baseline	2_42	357890	3090700	1.2	5.12E-02	5.83E-01	53	298	23	0.46
		post-baseline	2_43	357890	3090700	1.2	6.33E-02	3.89E-01	53	298	29	0.46
		post-baseline	2_44	357890	3090700	1.2	3.39E-02	3.89E-01	18	298	34	0.30
		post-baseline	2_66[b]	357890	3090700	1.2	1.64E-05	2.58E-01				
		post-baseline	2_60	357890	3090700	1.2	5.47E-02	2.94E-01	6.1	298	24	0.67
		post-baseline	2_61	357890	3090700	1.2	5.47E-02	1.71E-01	6.1	298	8.2	0.67
		post-baseline	2_27	357890	3090700	1.2	1.15E-01	1.71E-01	6.1	298	29	0.61
		post-baseline	2_31	357890	3090700	1.2	3.88E-01	1.34E+00	15	298	19	0.61
		post-baseline	2_32	357890	3090700	1.2	3.88E-01	3.88E-01	22	298	23	0.58
		post-baseline	2_45	357890	3090700	1.2	3.39E-02	2.27E-01	18	298	34	0.30
		post-baseline	2_54[b]	357890	3090700	1.2	1.01E-01	2.27E-01				
		post-baseline	2_57[b]	357890	3090700	1.2	4.46E-02	1.64E-04				
		post-baseline	2_64[b]	357890	3090700	1.2	1.64E-04	1.64E-05				
		post-baseline	2_65[b]	357890	3090700	1.2	1.64E-05	1.64E-05				
0570021	INTERNATIONAL SHIP REPAIR & MARINE SERV.	post-baseline	3_1[c]	358030	3092750		4.23E+00	4.23E+00		298		
0570024	KINDER MORGAN OLP "C"	post-baseline	4_2	361480	3087490	1.0	3.24E+00	3.24E+00	20	316	20	1.8
		post-baseline	4_3	361480	3087490	1.0	2.91E-01	2.91E-01	10	328	6.5	0.91
		post-baseline	4_4	361480	3087490	1.0	1.94E-01	1.94E-01	2.1	322	32	0.34
		post-baseline	4_5	361480	3087490	1.0	2.27E-01	2.27E-01	10	322	18	0.52
		post-baseline	4_6	361480	3087490	1.0	1.94E-01	1.94E-01	8.2	328	32	0.34
		post-baseline	4_7	361480	3087490	1.0	1.94E-01	1.94E-01	12	328	32	0.34
		post-baseline	4_8	361480	3087490	1.0	1.73E-02	6.30E-02	30	328	18	0.34
		post-baseline	4_9	361480	3087490	1.0	1.32E-01	1.39E-01	28	328	19	0.40
		post-baseline	4_12	361480	3087490	1.0	7.48E-01	7.48E-01	3.7	322	40	0.61
		post-baseline	4_102[c]	361480	3087490	1.0	6.35E-02	6.35E-02				
0570025	TRADEMARK NITROGEN CORP	post-baseline	5_1	367300	3092600	7.6	4.16E+00	4.16E+00	15	450	33	0.52
0570033	CSX TRANSPORTATION, INC.	pre-baseline	6_1	362390	3088990	2.4	1.28E+00	3.69E+00	14	300	13	2.4
		pre-baseline	6_2	362390	3088990	2.4	1.50E-01	4.30E-01	0.9	300	377	0.15
		pre-baseline	6_3	362390	3088990	2.4	1.49E+00	4.29E+00	12	300	21	2.0
		pre-baseline	6_4	362390	3088990	2.4	1.55E-01	4.46E-01	12	300	20	0.67
		pre-baseline	6_5	362390	3088990	2.4	9.72E-02	2.80E-01	12	300	19	0.55
		pre-baseline	6_6	362390	3088990	2.4	4.31E-02	1.23E-01	1.2	300	108	0.15
		pre-baseline	6_7	362390	3088990	2.4	3.48E-02	9.95E-02	0.9	300	88	0.15
		pre-baseline	6_8	362390	3088990	2.4	3.48E-02	9.95E-02	0.9	300	88	0.15
		pre-baseline	6_9	362390	3088990	2.4	2.68E-01	7.69E-01	11	300	15	1.0
		pre-baseline	6_10	362390	3088990	2.4	5.56E-01	1.60E+00	16	300	10	1.8

Table 5-17
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Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		pre-baseline	6_13	362390	3088990	2.4	4.31E-02	1.23E-01	1.8	300	16	0.40
0570039	TAMPA ELECTRIC COMPANY	pre-baseline	7_1	363150	3074910	2	5.09E+01	5.09E+01	149	419	35	7.3
		pre-baseline	7_2	363150	3074910	2	5.03E+01	5.03E+01	149	325	27	7.3
		pre-baseline	7_3	363150	3074910	2	5.18E+01	5.18E+01	149	426	16	7.3
		post-baseline	7_4	363150	3074910	2	5.46E+00	5.46E+00	149	326	18	7.3
		pre-baseline	7_5	363150	3074910	2	4.16E+00	4.16E+00	23	771	19	4.3
		pre-baseline	7_6	363150	3074910	2	4.16E+00	4.16E+00	23	771	19	4.3
		pre-baseline	7_7	363150	3074910	2	4.16E+00	4.16E+00	11	816	28	3.4
		pre-baseline	7_8	363150	3074910	2	6.50E-01	6.50E-01	31	394	16	0.76
		pre-baseline	7_9	363150	3074910	2	3.74E-01	3.78E-01	34	394	124	0.27
		pre-baseline	7_10	363150	3074910	2	3.49E+01	3.49E+01	34	394	19	0.24
		pre-baseline	7_11	363150	3074910	2	8.19E-02	8.19E-02	55	298	22	0.51
		pre-baseline	7_13	363150	3074910	2	5.75E-03	6.30E-03	31	339	14	0.15
		post-baseline	7_14	363150	3074910	2	2.52E-02	2.52E-02	42	333	18	0.49
		pre-baseline	7_15	363150	3074910	2	2.85E-02	6.05E-02	55	299	21	0.52
		pre-baseline	7_16	363150	3074910	2	2.85E-02	6.05E-02	55	299	21	0.52
		pre-baseline	7_17	363150	3074910	2	2.85E-02	6.05E-02	55	299	21	0.52
		pre-baseline	7_20	363150	3074910	2	1.35E-01	1.36E-01	3.0	298	42	0.30
		post-baseline	7_21	363150	3074910	2	1.64E-02	1.64E-02	3.0	298	3.5	0.30
		pre-baseline	7_22	363150	3074910	2	2.85E-02	3.78E-02	3.0	298	8.5	0.30
		pre-baseline	7_23[d]	363150	3074910	2	8.19E-02	8.19E-02				
		post-baseline	7_39[e]	363150	3074910	2	2.85E-02	6.05E-02	9.1	299	21	0.52
0570040	TAMPA ELECTRIC COMPANY	pre-baseline	8_8[f]	361100	3087500	0.87	1.47E-02	6.10E-01		298		
		post-baseline	8_20	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
		post-baseline	8_21	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
		post-baseline	8_22	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
		post-baseline	8_23	361100	3087500	0.87	1.51E+00	1.51E+00	46	266	0.15	65
		post-baseline	8_24	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
		post-baseline	8_25	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
		post-baseline	8_26	361100	3087500	0.87	1.51E+00	1.51E+00	46	373	18	5.8
0570286	TAMPA BAY SHIPBUILDING & REPAIR COMPANY	post-baseline	9_2[a]	358000	3089000	0.03	2.30E-02	2.52E-02	7.6	300	6.5	0.30
		post-baseline	9_3[a]	358000	3089000	0.03	2.30E-02	2.52E-02	7.6	300	6.5	0.30
		post-baseline	9_4[c]	358000	3089000	0.03	3.71E+00	3.71E+00				
		post-baseline	9_5[a]	358000	3089000	0.03	3.80E-01	3.80E-01	3.0	322	45	0.15
		post-baseline	9_102	358000	3089000	0.03	3.97E-01	3.97E-01	3.4	300	15	1.2
0570299	MASONITE CORPORATION	post-baseline	10_1[a]	362100	3092500	1.52	1.94E+00	1.94E+00	4.6	305	6.1	2.4
0570442	GULF MARINE REPAIR CORPORATION	post-baseline	11_3[c]	360300	3091900	0.61	2.95E+00	2.95E+00				

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Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		post-baseline	11_4[a]	360300	3091900	0.61	2.59E-02	2.59E-02	7.6	300	6.5	0.30
0570446	TRADEMARK METALS RECYCLING, LLC	post-baseline	12_1[c]	358040	3089090		1.91E+01	1.91E+01				
		post-baseline	12_2[c]	358040	3089090		4.86E-01	4.86E-01				
0571339	TRINITY MATERIALS, LLC	post-baseline	13_1[c]	360310	3087720	1.88	3.39E+00	3.39E+00				
		post-baseline	13_3[c]	360310	3087720	1.88	1.07E+00	1.07E+00				
		post-baseline	13_4[c]	360310	3087720	1.88	6.62E-02	6.62E-02		294		
		post-baseline	13_5[c]	360310	3087720	1.88	8.92E-01	8.92E-01		294		
		post-baseline	13_7[a]	360310	3087720	1.88	7.62E-01	7.62E-01	21	294	48.5	0.61
		post-baseline	13_8[a]	360310	3087720	1.88	2.59E-01	2.59E-01	6.1	294	66.0	0.30
		post-baseline	13_9[a]	360310	3087720	1.88	8.92E-02	8.92E-02	21	294	22.3	0.30
		post-baseline	13_10[a]	360310	3087720	1.88	1.32E-01	1.32E-01	7.6	294	33.5	0.30
		post-baseline	13_11[c]	360310	3087720	1.88	2.36E-01	2.36E-01				
0810010	FLORIDA POWER & LIGHT (PMT)	pre-baseline	14_1	367150	3054230	17	1.09E+02	1.09E+02	152	446	24	8.3
		pre-baseline	14_2	367150	3054230	17	1.09E+02	1.09E+02	152	436	25	8.0
		post-baseline	14_5	367150	3054230	17	1.64E+00	2.17E+00	37	875	32	6.7
		post-baseline	14_6	367150	3054230	17	1.64E+00	2.17E+00	37	368	18	5.8
		post-baseline	14_7	367150	3054230	17	1.64E+00	2.17E+00	37	368	18	5.8
		post-baseline	14_8	367150	3054230	17	1.64E+00	2.17E+00	37	368	18	5.8
1010017	FLORIDA POWER CORPDBAPROGRESS ENERGY F	pre-baseline	15_1	324440	3118930	2.9	6.39E+01	6.39E+01	152	433	19	7.3
		pre-baseline	15_2	324440	3118930	2.9	6.25E+01	6.25E+01	152	433	19	7.3
		pre-baseline	15_7[g]	324440	3118930	2.9	2.52E-02	2.52E-02				
1030011	FLORIDA POWER CORPDBAPROGRESS ENERGY F	pre-baseline	16_1[h]	343870	3082690	0	1.54E+01	1.54E+01	91	429	36	2.7
		pre-baseline	16_2[h]	343870	3082690	0	1.66E+01	1.66E+01	91	425	31	2.7
		pre-baseline	16_3[h]	343870	3082690	0	2.79E+01	2.79E+01	91	408	34	3.4
		pre-baseline	16_4	343870	3082690	0	2.76E-02	2.77E-02	9.1	541	5.2	0.91
		pre-baseline	16_5	343870	3082690	0	2.63E+00	2.63E+00	14	772	21	5.5
		pre-baseline	16_6	343870	3082690	0	2.63E+00	2.63E+00	14	772	21	5.5
		pre-baseline	16_7	343870	3082690	0	2.63E+00	2.63E+00	14	772	21	5.5
		pre-baseline	16_8	343870	3082690	0	2.63E+00	2.63E+00	14	772	21	5.5
		post-baseline	16_38	343870	3082690	0	1.41E+00	1.41E+00	37	361	21	5.5
		post-baseline	16_39	343870	3082690	0	1.41E+00	1.41E+00	37	361	21	5.5
		post-baseline	16_40	343870	3082690	0	1.41E+00	1.41E+00	37	361	21	5.5
		post-baseline	16_41	343870	3082690	0	1.41E+00	1.41E+00	37	361	21	5.5
		post-baseline	16_42[a]	343870	3082690	0	1.13E+00	1.13E+00	36.6	856	35.4	6.7
1050004	LAKELAND ELECTRIC	pre-baseline	17_1	408790	3106860	42	1.20E+01	1.20E+01	46	409	25	2.7
		pre-baseline	17_2	408790	3106860	42	2.19E-01	2.19E-01	6.1	653	23	0.79

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Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		pre-baseline	17_3	408790	3106860	42	2.19E-01	2.19E-01	6.1	653	23	0.79
		pre-baseline	17_4	408790	3106860	42	1.53E+00	1.53E+00	11	755	24	4.1
		pre-baseline	17_5	408790	3106860	42	1.40E+01	1.40E+01	48	409	22	3.2
		post-baseline	17_6	408790	3106860	42	3.44E+01	3.44E+01	76	348	25	5.5
		post-baseline	17_28	408790	3106860	42	1.76E+01	1.76E+01	26	864	25	8.5
1050059	MOSAIC FERTILIZER LLC	pre-baseline	18_2	396670	3079300	47	1.57E+00	1.57E+00	61	350	15	2.6
		pre-baseline	18_3	396670	3079300	47	6.05E-01	6.05E-01	61	350	15	2.6
		pre-baseline	18_4	396670	3079300	47	6.05E-01	6.05E-01	61	350	15	2.6
		pre-baseline	18_9	396670	3079300	47	3.60E+00	3.60E+00	41	314	15	2.1
		pre-baseline	18_11	396670	3079300	47	1.89E+00	1.89E+00	37	341	17	1.2
		pre-baseline	18_12	396670	3079300	47	3.62E+00	3.62E+00	41	315	19	1.8
		pre-baseline	18_15	396670	3079300	47	1.36E-01	1.36E-01	20	314	52	0.30
		pre-baseline	18_23	396670	3079300	47	5.98E-01	5.98E-01	35	314	10	0.30
		pre-baseline	18_24	396670	3079300	47	4.54E-01	4.54E-01	31	314	43	0.30
		pre-baseline	18_25	396670	3079300	47	4.54E-01	4.54E-01	36	314	39	0.30
		pre-baseline	18_26	396670	3079300	47	2.01E-01	2.02E-01	5.5	314	9.4	0.30
		pre-baseline	18_27	396670	3079300	47	9.41E-01	8.06E-01	52	328	20	2.4
		pre-baseline	18_28	396670	3079300	47	5.98E-01	9.45E-01	35	314	10	0.30
		pre-baseline	18_29	396670	3079300	47	5.90E-01	2.52E-02	41	305	13	0.91
		pre-baseline	18_31	396670	3079300	47	4.54E-01	5.32E-01	33	300	9.4	0.24
		pre-baseline	18_32	396670	3079300	47	9.69E-01	1.26E-01	26	378	79	0.46
		post-baseline	18_33	396670	3079300	47	9.69E-01	1.26E-02	26	408	69	0.46
		post-baseline	18_34	396670	3079300	47	1.18E-01	2.52E-02	22	325	27	0.52
		post-baseline	18_35	396670	3079300	47	1.18E-01	2.52E-02	22	311	77	0.30
		post-baseline	18_36	396670	3079300	47	3.76E+00	1.26E-02	52	314	16	1.4
		post-baseline	18_37	396670	3079300	47	4.54E-01	2.52E-02	33	311	21	0.55
		post-baseline	18_38	396670	3079300	47	4.54E-01	5.98E-01	33	311	24	0.34
		post-baseline	18_41	396670	3079300	47	6.30E-01	5.92E-01	32	311	55	0.46
		post-baseline	18_43	396670	3079300	47	4.54E-01	4.54E-01	32	314	21	0.49
		post-baseline	18_45	396670	3079300	47	8.05E-01	5.98E-01	52	316	18	1.8
		post-baseline	18_46	396670	3079300	47	8.05E-01	9.70E-01	52	316	18	1.8
		post-baseline	18_47	396670	3079300	47	2.45E-01	1.26E-02	45	353	21	1.3
		post-baseline	18_48	396670	3079300	47	1.26E-01	8.82E-02	18	300	10	1.1
		pre-baseline	18_52	396670	3079300	47	5.98E-01	4.54E-01	35	314	10	0.30
		post-baseline	18_55	396670	3079300	47	6.47E-01	9.70E-01	7.6	333	10	1.3
		post-baseline	18_56	396670	3079300	47	7.62E-01	6.48E-01	52	316	20	1.5
		post-baseline	18_59	396670	3079300	47	6.30E-01	6.30E-01	32	311	21	0.46
		pre-baseline	18_62	396670	3079300	47	3.16E-02	7.64E-01	12	389	0.13	0.61

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Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		pre-baseline	18_63	396670	3079300	47	2.30E-02	4.54E-01	12	389	0.13	0.61
		pre-baseline	18_64	396670	3079300	47	8.63E-03	6.30E-01	12	389	0.13	0.61
		pre-baseline	18_65	396670	3079300	47	2.30E-02	7.56E-02	12	389	0.13	0.61
		pre-baseline	18_66	396670	3079300	47	1.15E-02	1.18E-01	12	389	0.13	0.61
		pre-baseline	18_67	396670	3079300	47	2.30E-02	1.18E-01	7.6	305	0	0
		pre-baseline	18_68	396670	3079300	47	2.30E-02	3.76E+00	7.6	305	0	0
		pre-baseline	18_69	396670	3079300	47	8.63E-03	4.28E-01	7.6	305	0	0
		post-baseline	18_70	396670	3079300	47	8.63E-02	2.39E-01	34	316	35	0.23
		pre-baseline	18_74	396670	3079300	47	4.28E-01	8.06E-01	52	314	21	1.4
		post-baseline	18_75	396670	3079300	47	2.39E-01	2.39E-01	26	394	32	0.91
		post-baseline	18_76	396670	3079300	47	2.39E-01	1.22E+00	27	328	35	0.46
		pre-baseline	18_78	396670	3079300	47	1.22E+00	4.54E-01	41	336	33	1.8
7770473	CONRAD YELVINGTON DISTRIBUTORS	NA	19_1[c]	361770	3096900		4.46E-01	4.46E-01				
		NA	19_2[c]	361770	3096900		4.46E-01	4.46E-01				
		NA	19_3[c]	361770	3096900		4.46E-01	4.46E-01				
		NA	19_4[c]	361770	3096900		4.46E-01	4.46E-01				
		NA	19_5[c]	361770	3096900		4.46E-01	4.46E-01				
		NA	19_6[c]	361770	3096900		5.18E-02	5.18E-02				
		NA	19_7[c]	361770	3096900		5.18E-02	5.18E-02				
0570056	GAF MATERIALS CORPORATION	post-baseline	20_1	362200	3087200	1	4.32E-01	4.32E-01	11	311	5.2	1.2
		post-baseline	20_2	362200	3087200	1	2.43E-01	2.43E-01	7.6	300	52	0.30
		post-baseline	20_3	362200	3087200	1	9.92E-02	9.92E-02	7.6	300	1.8	1.2
		post-baseline	20_4	362200	3087200	1	1.27E+00	1.27E+00	11	714	23	0.61
		post-baseline	20_5	362200	3087200	1	2.26E-01	2.26E-01	9.1	408	12	0.61
		post-baseline	20_6	362200	3087200	1	2.42E-02	4.21E-02	11	300	48	0.14
		post-baseline	20_7	362200	3087200	1	2.90E-02	2.90E-02	11	300	40	0.12
		post-baseline	20_8	362200	3087200	1	2.42E-02	4.21E-02	15	300	61	0.12
		post-baseline	20_9	362200	3087200	1	1.27E+00	1.27E+00	7.6	714	23	0.61
		post-baseline	20_100[c]	362200	3087200	1	1.57E-02	1.57E-02				
		post-baseline	20_102[c]	362200	3087200	1	1.21E-02	1.21E-02				
		post-baseline	20_101	362200	3087200	1	8.43E-02	2.46E-01	11	300	22	0.47
0570119	GULF COAST METALS, INC.	post-baseline	21_4[j]	364700	3093600	8	1.12E-02	1.64E-02	7.6			0.21
		post-baseline	21_5	364700	3093600	8	4.03E-02	4.03E-02	15	365	20	1.2
		post-baseline	21_6	364700	3093600	8	4.03E-02	4.03E-02	15	365	20	1.2
0570238	PREFERRED MATERIALS, INC., TAMPA KEYS	post-baseline	22_1[j]	363200	3093300	4.32	1.87E-01	6.30E-01	3.0	299	20	0.49
0570364	MANNA PRO CORPORATION	post-baseline	23_2[k]	364700	3092600	6	1.93E-02	1.93E-02		294		
		post-baseline	23_3	364700	3092600	6	1.36E-01	2.86E-01	0.6	311	28	0.49

Table 5-17
Summary of PM_{10} AAQS and Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)
		post-baseline	23_4	364700	3092600	6	2.79E-01	2.86E-01	0.6	311	28	0.49
		post-baseline	23_5	364700	3092600	6	4.92E-02	2.07E-01	5.5	311	34	0.40
		post-baseline	23_6[a]	364700	3092600	6	4.60E-02	1.59E-01	21.3	298	14.7	0.5
		post-baseline	23_7[a]	364700	3092600	6	4.60E-02	1.59E-01	21.3	298	14.7	0.5
		post-baseline	23_8[l]	364700	3092600	6	1.93E-02	1.93E-02		294		
0570373	CITY OF TAMPA-WASTEWATER DEPT.	post-baseline	24_1	364000	3089500	4	6.49E-01	6.49E-01	23	375	25	0.91
		post-baseline	24_2	364000	3089500	4	6.49E-01	6.49E-01	23	375	8.8	1.5
		post-baseline	24_5[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_6[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_7[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_8[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_9[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_10[c]	364000	3089500	4	3.25E-02	3.28E-02	NA	299	NA	NA
		post-baseline	24_11[c]	364000	3089500	4	1.02E-01	1.02E-01	NA	298	NA	0.30
		pre-baseline	24_12[a]	364000	3089500	4	2.27E-02	2.27E-02	15	755	28.7	0.46
		post-baseline	24_16[c]	364000	3089500	4	1.02E-01	1.02E-01	NA	298	NA	NA
		post-baseline	24_17	364000	3089500	4	5.03E-02	5.03E-02	11	661	28	0.70
		post-baseline	24_18	364000	3089500	4	5.03E-02	1.13E-01	11	661	28	0.70
0570401	FLORIDA MEGA-MIX, INC.	post-baseline	25_1[j]	364500	3093400		2.22E-01	6.24E-01	5.2	305	12	0.24
0571337	TAMPA PAVEMENT CONSTRUCTORS, INC	post-baseline[m]	26_5[c]	364300	3097640		1.50E+00	1.50E+00				
7771101	WOODRUFF & SONS, INC.	post-baseline[m]	27_1[n]	363510	3092970	4.5	1.36E-01	5.75E-01	NA	298	NA	NA
		post-baseline[m]	27_2[a]	363510	3092970	4.5	1.14E-02	4.81E-02	3.0	322	45.3	0.2
7775159	WOODRUFF & SONS, INC.	post-baseline[m]	28_1[a]	364380	3093180	5.18	2.01E-01	6.30E-01	10.7	300	6.5	0.3
0570321	MANTUA MANUFACTURING CO.	post-baseline[m]	29_1	364700	3092500	3.83	2.59E-02	2.72E-01	6.1	1033	4.0	0.2

Note:
[a] Stack information provided in an email from FDEP on January 27, 2009.
[b] Confirmed to be inactive, per an email from FDEP on December 11, 2008.
[c] Not modeled as these sources, which are missing stack parameters, are minor sources and outside the significant impact area.
[d] Removed as they are low emission sources appoximately 19 km away, approved by FDEP in an email on January 29, 2009.
[e] Used stack parameters of a simiar unit at the same facility.
[f] Confirmed to be inactive, per an email from FDEP on December 4, 2008.
[g] Removed this source with minimal emissions, as suggested by FDEP in an email on January 29, 2009.
[h] Not modeled as these sources are shut down, according to an email from FDEP on July 15, 2008.
[l] Confirmed to be inactive, per an email from Hillsborough County on January 12, 2009.

Table 5-17
Summary of PM_{10} AAQS and Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

Facility ID	Company Name	Increment Modeling	SourceID	Coordinates		Elevation	Potential Emission Rate		Stack Height	Exit Temperature	Velocity	Diameter
				UTMx (m)	UTMy (m)	(m)	Long Term (g/s)	Short Term (g/s)	(m)	(K)	(m/s)	(m)

[j] Removed as these sources have only opacity limits, according to Deborah Nelson's email on July 30, 2008.
[k] Assumed to be a ground level volume source with a vertical dimension of 1 m and a lateral dimension of 3 m.
[l] Assumed to be a ground level volume source with a vertical dimension of 4 m and a lateral dimension of 3 m.
[m] per an email from Hillsborough County on February 2, 2009.
[n] Assumed to be a ground level volume source with a vertical dimension of 5 m and a lateral dimension of 5 m.

Table 5-18
Summary of NO_2 Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
1030011	FLORIDA POWER CORPDBAPROGRESS ENERGY FLA	2_1	343870	3082690	0	-1.30E+01	91	429	36	2.7
		2_2	343870	3082690	0	-1.12E+01	91	425	31	2.7
		2_3	343870	3082690	0	-3.02E-01	91	408	34	3.4
		2_4	343870	3082690	0	1.11E-02	9.1	541	5.2	0.91
		2_5	343870	3082690	0	2.11E+00	14	772	21	5.5
		2_6	343870	3082690	0	1.70E+00	14	772	21	5.5
		2_7	343870	3082690	0	2.66E+00	14	772	21	5.5
		2_8	343870	3082690	0	2.28E+00	14	772	21	5.5
1030013	FLORIDA POWER CORPDBAPROGRESS ENERGY FLA	3_1	338850	3071420	0	3.06E+00	12	755	6.4	7.0
		3_2	338850	3071420	0	2.02E+00	12	755	6.4	7.0
		3_3	338850	3071420	0	2.32E+00	12	755	6.4	7.0
		3_4	338850	3071420	0	7.59E-01	12	755	6.4	7.0
0570040	TAMPA ELECTRIC COMPANY	4_1[a]	361100	3087500	0.9	-1.33E+02	96	416	28.7	3.0
		4_2[a]	361100	3087500	0.9	-1.28E+02	96	421	30.8	3.0
		4_3[a]	361100	3087500	0.9	-1.61E+02	96	420	38.4	3.2
		4_4[a]	361100	3087500	0.9	-2.06E+02	96	427	22.9	3.0
		4_5[a]	361100	3087500	0.9	-2.37E+02	96	424	23.2	4.5
		4_6[a]	361100	3087500	0.9	-3.98E+02	96	433	24.7	5.4
		4_7[a]	361100	3087500	0.9	-1.27E-01	11	816	28.2	3.4
		4_20	361100	3087500	0.9	1.36E+00	46	373	18	5.8
		4_21	361100	3087500	0.9	1.96E+00	460	373	18	5.8
		4_22	361100	3087500	0.9	2.04E+00	46	373	18	5.8
		4_23	361100	3087500	0.9	1.97E+00	46	266	0	65
		4_24	361100	3087500	0.9	2.07E+00	46	373	18	5.8
		4_25	361100	3087500	0.9	2.03E+00	46	373	18	5.8
		4_26	361100	3087500	0.9	1.99E+00	46	373	18	5.8
0570039	TAMPA ELECTRIC COMPANY	5_1	363150	3074910	1.9	-3.27E+02	149	419	35	7.3
		5_2	363150	3074910	1.9	-1.26E+02	149	325	27	7.3
		5_3	363150	3074910	1.9	1.58E+00	149	426	16	7.3
		5_4	363150	3074910	1.9	-7.08E+01	149	326	18	7.3
		5_5	363150	3074910	1.9	-7.07E-01	23	771	19	4.3
		5_6	363150	3074910	1.9	-1.56E+00	23	771	19	4.3
		5_7	363150	3074910	1.9	-1.66E-01	11	816	28	3.4
1030017	CEMETERY MANAGEMENT, INC	7_1[b]								
		7_2[b]								

Table 5-18
Summary of NO_2 Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		7_3[b]								
0570373	CITY OF TAMPA-WASTEWATER DEPT.	8_1	364000	3089500	4.6	2.24E-01	23	375	25	0.91
		8_2	364000	3089500	4.6	7.77E-02	23	375	8.8	1.5
		8_12[a]	364000	3089500	4.6	9.62E-02	15	755	28.7	0.5
		8_17	364000	3089500	4.6	6.28E-02	11	661	28	0.70
		8_18	364000	3089500	4.6	5.87E-02	11	661	28	0.70
1030012	FLORIDA POWER CORPDBAPROGRESS ENERGY FLA	9_1[b]								
		9_2[b]								
		9_3[b]								
		9_4	336620	3098660	2.2	9.18E-01	17	728	28	4.6
		9_5	336620	3098660	2.2	6.61E-01	17	728	28	4.6
		9_6	336620	3098660	2.2	1.26E+00	17	728	28	4.6
		9_7	336620	3098660	2.2	1.29E+00	17	728	28	4.6
0570261	HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.	10_1	369380	3092690	15	-1.05E+01	67	416	22	1.6
		10_2	369380	3092690	15	-1.10E+01	67	416	22	1.6
		10_3	369380	3092690	15	-1.06E+01	67	416	22	1.6
1050003	LAKELAND ELECTRIC	11_1[c]								
		11_2[c]								
		11_3	409260	3103020	40	-2.88E-03	50	444	6.4	3.0
		11_4	409260	3103020	40	-2.88E-02	50	444	6.7	3.0
		11_5	409260	3103020	40	1.54E-02	9.4	700	31	3.6
		11_6	409260	3103020	40	2.07E-02	9.4	700	31	3.6
		11_7[c]								
		11_8	409260	3103020	40	1.77E+00	47	523	26	4.9
0810010	FLORIDA POWER & LIGHT (PMT)	12_1	367150	3054230	16	-3.80E+01	152	446	24	8.3
		12_2	367150	3054230	16	-9.95E+01	152	436	25	8.0
		12_3	367150	3054230	16	1.29E-02	4.9	650	48	0.37
		12_5	367150	3054230	16	1.53E+00	37	875	32	6.7
		12_6	367150	3054230	16	1.69E+00	37	368	18	5.8
		12_7	367150	3054230	16	1.53E+00	37	368	18	5.8
		12_8	367150	3054230	16	1.53E+00	37	368	18	5.8
1050004	LAKELAND ELECTRIC	13_1	408790	3106860	42	-1.52E+00	46	409	25	2.7
		13_2	408790	3106860	42	2.08E-02	6.1	653	23	0.79
		13_3	408790	3106860	42	1.99E-02	6.1	653	23	0.79
		13_4	408790	3106860	42	3.50E-02	11	755	24	4.1

Table 5-18
Summary of NO_2 Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		13_5	408790	3106860	42	-1.97E+01	48	409	22	3.2
		13_6	408790	3106860	42	4.83E+00	76	348	25	5.5
		13_12[d]	408790	3106860	42	0.6854457	3.048	755	141	0.1
		13_13[e]	408790	3106860	42	0.0140726	2.4384	NA	NA	0.2
		13_28	408790	3106860	42	2.07E+00	26	864	25	8.5
0570127	CITY OF TAMPA	14_1[a]	360200	3092210	0.9	-5.93E+00	49	505	12	1.7
		14_2[a]	360200	3092210	0.9	-5.68E+00	49	505	12	1.7
		14_3[a]	360200	3092210	0.9	-4.93E+00	49	505	12	1.7
		14_4[a]	360200	3092210	0.9	-5.28E+00	49	505	12	1.7
		14_103	360200	3092210	0.9	2.83E+00	61	430	22	1.3
		14_104	360200	3092210	0.9	2.89E+00	61	430	22	1.3
		14_105	360200	3092210	0.9	2.58E+00	61	430	22	1.3
		14_106	360200	3092210	0.9	2.68E+00	61	430	22	1.3
0570008	MOSAIC FERTILIZER, LLC	15_4	364590	3082380	1.2	1.29E+00	46	340	13	2.3
		15_5	364590	3082380	1.2	1.28E+00	46	340	10	2.4
		15_6	364590	3082380	1.2	1.30E+00	46	350	13	2.7
		15_7	364590	3082380	1.2	-2.41E-01	38	329	11	2.4
		15_22[c]								
		15_23[c]								
		15_34[c]								
		15_36[c]								
		15_38[c]								
		15_41[c]								
		15_43	364590	3082380	1.2	-2.34E-02	6.1	489	16	1.2
		15_55	364590	3082380	1.2	4.90E-02	41	315	15	2.1
		15_78	364590	3082380	1.2	2.39E-01	38	339	0	1.8
		15_103	364590	3082380	1.2	3.18E-01	38	339	17	1.8
1010056	PASCO COUNTY	16_1	347110	3139210	15	7.96E+00	84	394	25	1.4
		16_2	347110	3139210	15	8.49E+00	84	394	25	1.4
		16_3	347110	3139210	15	7.54E+00	84	394	25	1.4
1050233	TAMPA ELECTRIC COMPANY	17_1	402440	3067360	42	1.15E+01	46	444	23	5.8
		17_3	402440	3067360	42	1.02E-02	23	464	15	1.1
		17_4[a]	402440	3067360	42	1.03E-01	61	355	18	0.8
		17_7[f]	402440	3067360	42	5.60E-03				
		17_9	402440	3067360	42	6.62E-01	35	876	18	8.8

Table 5-18
Summary of NO_2 Increment Modeling Inventory
EnviroFocus Technologies, LLC
Tampa, Florida

FACILITY ID	COMPANY NAME	SourceID	Coordinates		Elevation	Emission Rate	Stack Height	Exit Temperature	Velocity	Diameter
			UTMx (m)	UTMy (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
		17_10	402440	3067360	42	7.20E-01	35	876	18	8.8
0570442	GULF MARINE REPAIR CORPORATION	18_3[g]	360300	3091900		1.32E+00				
0571290	TARMAC AMERICA, LLC (TITAN AMERICA BUS.)	19_4[g]	359940	3087810	2.3	1.17E+00		300		
		19_8[a]	359940	3087810	2.3	8.15E-01	3	322	45	0.2
		19_9[a]	359940	3087810	2.3	1.17E-01	2	322	45	0.2
		19_10[a]	359940	3087810	2.3	2.20E-01	2	322	45	0.2
0570286	TAMPA BAY SHIPBUILDING & REPAIR COMPANY	20_5[g]	358000	3089000		8.40E-01	3.0		45	0.15
0570025	TRADEMARK NITROGEN CORP	21_1	367300	3092600	7.6	1.67E+00	15	450	33	0.52
0570119	GULF COAST METALS, INC.	22_5	364700	3093600	6.2	2.53E-02	15	365	20	1.2
		22_6	364700	3093600	6.2	3.83E-02	15	365	20	1.2
0570223	APAC-SOUTHEAST, INC CENTRAL FLORIDA DIV.	23_2	364000	3098100	20	-1.71E-02	10	436	19	1.4
		23_101[g]	364000	3098100	20	0.0774455	NA	NA	NA	NA
		23_104[g]	364000	3098100	20	0.0271902	NA	NA	NA	NA
0570321	MANTUA MANUFACTURING CO.	24_2	364700	3092500	3.8	6.18E-04	6.1	1033	4	0.23

Note:

[a] Stack information provided in an email from FDEP on January 27, 2009.

[b] Confirmed to be inactive, per an email from FDEP on January 15, 2009.

[c] Confirmed to be inactive, per an email from FDEP on December 11, 2008.

[d] Used the stack temperaturea and flow rate of a typical 500 HP engine: 900 degree F and 3500 acfm, approved by FDEP in an email on January 29, 2009.

[e] Removed this emergency generator, as suggested by FDEP in an email on January 29, 2009.

[f] Removed this source with minimal emissions, as suggested by FDEP in an email on December 11, 2009.

[g] Not modeled as these sources, which are missing stack parameters, are minor sources and outside the significant impact area.

Table 5-19
Summary of Full Impact Analysis: Lead
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Receptor	Maximum Concentration ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)	Total Concentration ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Violation of NAAQS?
Lead	Rolling 3-Months	Nearest Residential Area	0.08	0.05	0.13	0.15	No
		Lead Monitor 1073	0.04	0.05	0.09	0.15	No
		Lead Monitor 1066	0.08	0.05	0.13	0.15	No

Table 5-20
Summary of Full Impact Analysis: NO_2
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)	Total Concentration ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Violation of NAAQS?
			X	Y					
NO_2	Annual	2001	364035	3093893	12.8	13.2	30.30	100	No
		2002	364035	3093893	13.7	13.2	31.51	100	No
		2003	364035	3093893	17.1	13.2	36.06	100	No
		2004	364035	3093893	15.5	13.2	33.83	100	No
		2005	364035	3093893	13.6	13.2	31.35	100	No

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration (mg/m^3)	PSD Class II Increment	Exceed Class II Increment?
			X	Y			
NO_2	Annual	2001	364035	3093893	6.7	25	No
		2002	364035	3093893	6.8	25	No
		2003	364035	3093893	9.6	25	No
		2004	364035	3093893	8.0	25	No
		2005	364035	3093893	7.4	25	No

Notes:
[a] Modeled NO_2 concentrations was converted from NOx assuming a NO_2 to NO_X annual ratio of 0.75

Table 5-21
Summary of Full Impact Analysis: PM_{10}
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)	Total Concentration ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Violation of NAAQS?
			X	Y					
PM_{10}	Annual	2001	363535	3092993	33.8	29	62.8	50	Yes
		2002	363535	3092993	35.9	29	64.9	50	Yes
		2003	363535	3092993	38.0	29	67.0	50	Yes
		2004	363535	3092993	41.3	29	70.3	50	Yes
		2005	363535	3092993	34.2	29	63.2	50	Yes
	24-hour	2001-2005	363535	3092993	1003.2	76	1079.2	150	Yes

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)	Total Concentration ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Violation of NAAQS?
			X	Y					
PM_{10}	Annual [a]	2001	364178	3093725	5.1	29	34.1	50	No
		2002	364178	3093725	5.3	29	34.3	50	No
		2003	364178	3093725	5.5	29	34.5	50	No
		2004	364178	3093725	5.6	29	34.6	50	No
		2005	364178	3093725	5.4	29	34.4	50	No
	24-hour [b]	2001-2005	364210	3093891	30.1	76	106.1	150	No

Notes:
[a] Excluding the days and receptors that are not significant.
[b] PM10 24-hour concentrations are the highest 6th highest during the period of 2001 to 2005, excluding the days and receptors that are not significant.

Table 5-21
Summary of Full Impact Analysis: PM_{10}
EnviroFocus Technologies, LLC
Tampa, Florida

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration (mg/m^3)	PSD Class II Increment (mg/m^3)	Exceed Class II Increment?
			X	Y			
PM_{10}	Annual	2001	363535	3092993	33.2	17	Yes
		2002	363535	3092993	35.2	17	Yes
		2003	363535	3092993	37.1	17	Yes
		2004	363535	3092993	40.5	17	Yes
		2005	363535	3092993	33.6	17	Yes
	24-hour	2001	363435	3092993	703.9	30	Yes
		2002	363535	3092993	781.3	30	No
		2003	363435	3092993	775.0	30	Yes
		2004	363535	3092993	1015.8	30	No
		2005	363535	3092993	996.3	30	Yes

Pollutant	Averaging Period	Year	Receptor		Maximum Concentration (mg/m^3)	PSD Class II Increment (mg/m^3)	Exceed Class II Increment?
			X	Y			
PM_{10}	Annual [a]	2001	364178	3093725	4.6	17	No
		2002	364178	3093725	4.7	17	No
		2003	364178	3093725	4.7	17	No
		2004	364178	3093725	4.8	17	No
		2005	364178	3093725	4.8	17	No
	24-hour [c]	2001	364210	3093891	25.9	30	No
		2002	364210	3093891	21.5	30	No
		2003	364210	3093891	21.2	30	No
		2004	364160	3093891	23.3	30	No
		2005	364135	3093893	22.9	30	No

Notes:
[a] Excluding the days and receptors that are not significant.
[c] PM10 24-hour concentrations are the highest second highest each year, excluding the days and receptors that are not significant.

Appendix G

Table of Eagan Production vs. Lead Concentrations

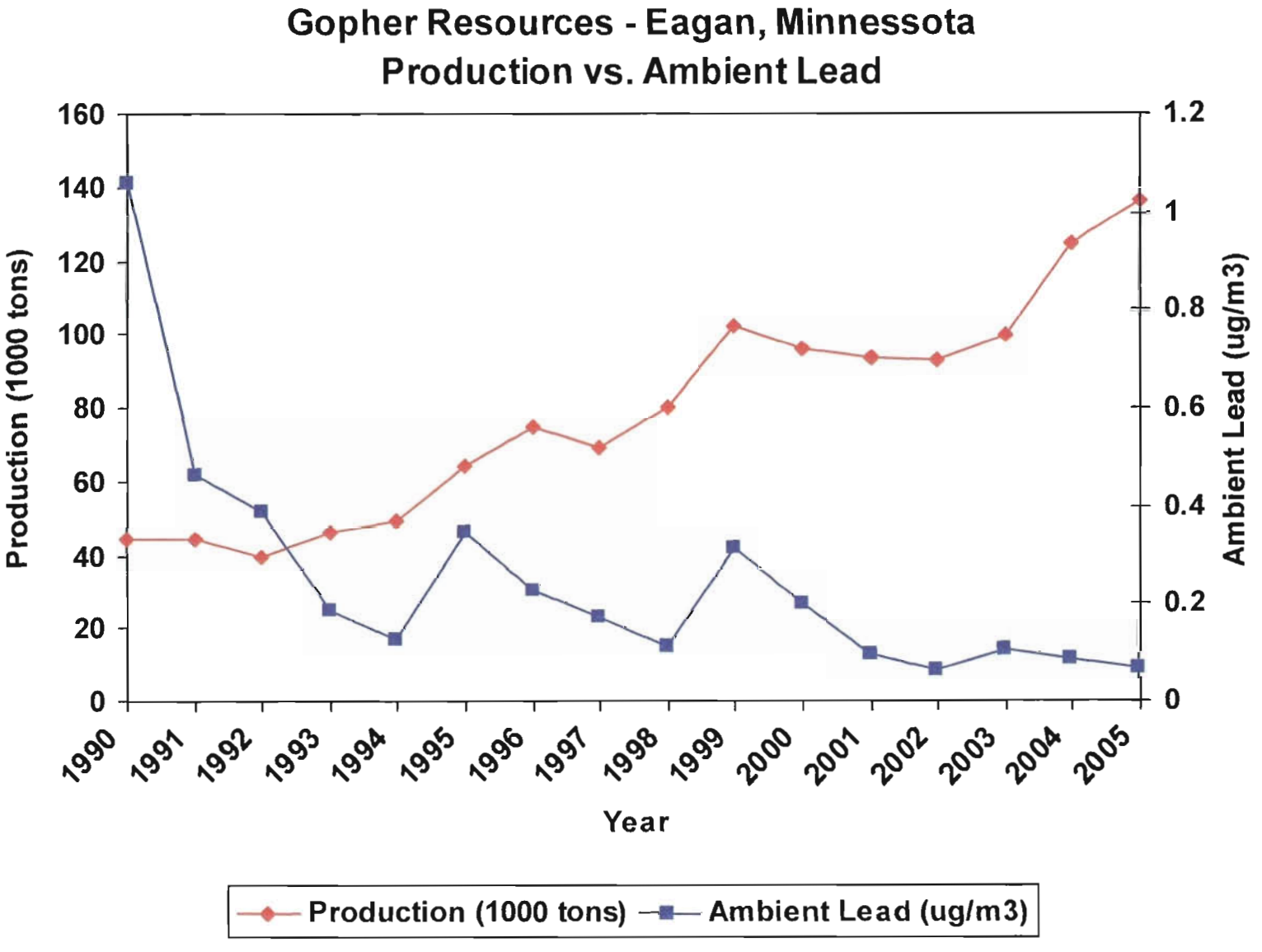
Gopher Resources - Eagan, Minnesota
Annual Production vs. Ambient Lead Concentrations

Year	Annual Production (tons)	Avgerage Lead Concentration (ug/m3)
1990	44,435	1.062
1991	44,400	0.467
1992	39,770	0.389
1993	46,233	0.186
1994	49,439	0.125
1995	64,432	0.351
1996	75,323	0.229
1997	69,414	0.174
1998	80,695	0.110
1999	102,633	0.314
2000	95,903	0.198
2001	93,488	0.097
2002	93,000	0.065
2003	100,000	0.106
2004	125,082	0.087
2005	137,334	0.068

All Data from Monitor #27-037-0001 (POC1)
Located at 3450 Dodd Road (SE of Plant Site)

Appendix H

Chart of Eagan Production vs. Lead Concentrations


Gopher Resources - Eagan, Minnesota
Production vs. Ambient Lead
Production (1000 tons)
Ambient Lead (ug/m3)
160
140
120
100
80
60
40
20
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
Year
Production (1000 tons)
Ambient Lead (ug/m3)

Appendix I

Construction Fugitive Control Plan

ENVIROFOCUS TECHNOLOGIES (EFT)
CONSTRUCTION FUGITIVE CONTROL PLAN

The construction at EFT will involve activities that can create fugitive emissions. Certain practices, common in the lead and construction/demolition industries, can help mitigate these emissions. The intent of this plan is to spell out exactly what these practices are, how and when they will be used at EFT during the construction process, and who is responsible for insuring they are followed.

The EFT facility has been in operation for over 40 years on this site. Any structures that have been exposed to the lead recycling operation will have some lead deposited on surfaces (no matter how effective the on-going housekeeping program may be). These structures also includes flooring (cement & asphalt) in the operations areas as well as paved areas within the fence line. When any of these materials are demolished and removed, fugitive lead emissions could potentially be released into the air. This plan addresses "best practices" designed to prevent fugitive air emissions from occurring.

The plan is broken down into "pre-demolition" tasks, tasks to control emissions during the activity, and finally, how these tasks will be coordinated. Overall compliance of this plan will be the responsibility of the Environmental Health & Safety Manager at EFT. These responsibilities will include the following:

- insure that all EFT personnel and contractors are familiar with the contents of this plan and how it applies to them.
- meet with contractor's on a set frequency when work is scheduled to be performed to coordinate pre-demolition tasks, emission control tasks, and so on.
- insure that all EFT personnel and contractors comply with the requirements of this plan.
- thoroughly document activities that could impact fugitive emissions, the controls that were utilized to minimize these emissions, and what weather conditions were present at those times.

PRE-DEMOLITION TASKS:

The residual lead deposited on the surfaces of building structures, equipment, and flooring must be thoroughly cleaned prior to demolition. Depending on the location, this can involve pressure washing the structures prior to the demolition to remove the lead. In outside areas where pressure washing may not be feasible, use of the Tennant sweeper to clean the asphalt or cement thoroughly should be sufficient.

These tasks need to be coordinated between EFT personnel and the contracting crews since most of this "pre-demolition" work will be performed by EFT personnel. Personnel pressure washing structures need to insure that the cleaning is thorough. All horizontal surfaces where dust can accumulate must be cleaned and then the vertical surfaces cleaned. The cleaning should start from the top of the structure working down towards the bottom for maximum cleaning effectiveness.

Flooring inside the building should be pressure washed prior to sawcutting/removal. Liquids will be contained inside the building and captured in floor sumps. Cement/asphalt outside of the buildings should be thoroughly swept with the Tennant sweeper.

All these activities will minimize the amount of lead dust/oxide that may be retained on the structure or flooring. It also insures that the lead dust/oxide removed during the cleaning process is captured either in the floor sumps or by the Tennant sweeper.

DEMOLITION/LOADING ACTIVITIES

Once the pre-demolition cleaning tasks have been completed, the actual demolition can begin. Demolition can include removal of siding, roofing, steel structural supports, processing equipment and cement & asphalt surfaces. All these materials could potentially still retain some slight amount of lead on them so the control of dust during the removal and loading process is critical.

The EHS Manager is responsible for insuring that all demolition activities are done in conjunction with this procedure. The coordination of water control applications would normally be carried out by contractor personnel but overall compliance still remains with the EHS Manager.

Dust control will involve the application of a fine water spray to the structure/material during the removal and loading process. Drainage flow of the waste water stream should be either into the building (and to the floor sumps) or into the floor sumps located outdoors. When possible, flow into the building is the preferred method. The application of water should be sufficient to control the dusting while still minimizing the quantity of liquids generated. Effective control does not necessarily require large amounts of water – the key is applying the spray to specific locations and only when dusting is a problem.

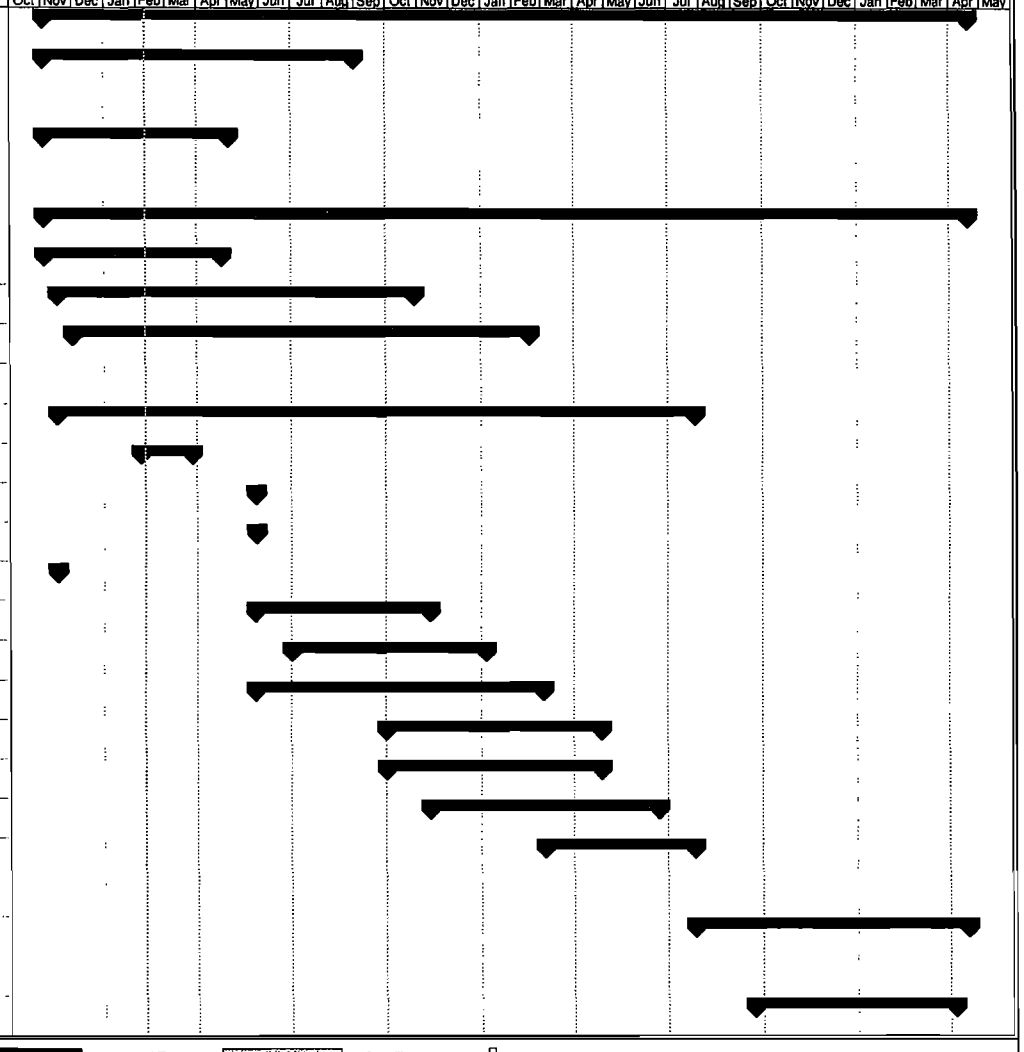
Any equipment or vehicles that are used for demolition and removal may also need deconning if the vehicles were driven inside the buildings where lead dusts/oxides were present. Normally, this would involve pressure washing tires to insure that there would be no dragout of the dusts or oxides from the building.

Sawcutting should never be done without using water control methods. That operation is very dusty and the application of water will minimize the dusting. Water application while breaking up cement/asphalt and then loading it into roll-offs, end dumps, etc. will minimize the dusting that is common when handling those types of materials.

Weather conditions should be evaluated prior to any demolition type work. Activities on very windy days should be minimized or possibly eliminated depending on the type of work and the structure to be removed. This decision will be made by the EHS Manager and communicated to the relevant contractors promptly.

Gopher Resource Corporation / EnvirFocus Technologies

ID	Task Name	Duration	Start	Finish	Predecessors
1	EFT Expansion Design and Construction	642 days?	Mon 11/3/08	Tue 4/19/11	
2	EFT/GRC Permits	216 days	Mon 11/3/08	Mon 8/31/09	
10					
11	Design	130 days	Mon 11/3/08	Fri 5/1/09	
41					
42	Construction	641 days?	Tue 11/4/08	Tue 4/19/11	
43	Construction Permits	124 days	Tue 11/4/08	Fri 4/24/09	
53	Site Preperation Construction	248 days?	Mon 11/17/08	Wed 10/28/09	
72	Surcharge & Construct Hygiene	317 days	Tue 12/2/08	Wed 2/17/10	
83					
84	Lead Production Grids 4 to 12	442 days?	Mon 11/17/08	Tue 7/27/10	
85	Select Lead Production Contractors	36 days	Fri 2/6/09	Fri 3/27/09	
92	Site Grading and Utilities	1 day?	Thu 5/28/09	Thu 5/28/09	47,4
105	Offsite Utilities	1 day?	Thu 5/28/09	Thu 5/28/09	47,4
108	Demolition	1 day?	Mon 11/17/08	Mon 11/17/08	
115	Structure and Enclosure Grids 8 to 12	121 days	Thu 5/28/09	Thu 11/12/09	48,4
123	Structure and Enclosure Grids 4 to 8	134 days	Thu 7/2/09	Tue 1/5/10	
131	Equipment	199 days	Thu 5/28/09	Tue 3/2/10	
135	Mechanical	148 days	Fri 10/2/09	Tue 4/27/10	
138	Electrical	148 days	Fri 10/2/09	Tue 4/27/10	
141	Finishes	158 days	Fri 11/13/09	Tue 6/22/10	
146	System Startup	103 days	Fri 3/5/10	Tue 7/27/10	
149					
150	Shipping and Receiving Grids 1 to 4	190 days	Wed 7/28/10	Tue 4/19/11	
157					
158	Warehouse Grids 12 to 16	140 days	Thu 9/23/10	Wed 4/6/11	



Project: EFT - Wes
Date: Mon 2/9/09

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DRAFT PRELIMINARY CONSTRUCTION SCHEDULE

Appendix J

Excerpts from Exide, California Permit and EnviroFocus Title V Application

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

FACILITY PERMIT TO OPERATE
EXIDE TECHNOLOGIES

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: SECONDARY METALS; LEAD SMELTING PROCESS					
				RULE 2012,4-9-1999] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,12-7-1995;*RULE 2012,4-9-1999*] ; PM: (9) [RULE 405,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; SOX: 0.133 LBS/LB MATERIAL (1) [RULE 2011,12-7-1995;*RULE 2011,4-9-1999*] SOX: 0.83 LBS/MMSCF NATURAL GAS (1) [RULE 2011,12-7-1995;*RULE 2011,4-9-1999*]	
HOPPER, DUMP, DROSS A/N: 374206	D8	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01,1-29-1999] ; PM: (9) [RULE 405,2-7-1986]	D323.1
FURNACE, POT, NO. 2, NATURAL GAS, HARD LEAD, 2.5 MMBTU/HR, A/N: 374208	D9	C38 C39 C46	NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; LEAD: (10) [40CFR 63 Subpart X, #01,1-29-1999] ; NOX: 0.077 LBS/LB MATERIAL (1) [RULE 2012,12-7-1995	A63.2, B295.2, B295.3, D12.8, D323.1, E71.1, H116.2

(1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS,etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements

Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: **NOX**	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour **43.2 tons/year**	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: **0.24 lb/lb $NaNO_3$** Reference: **From Stack Test**	7. Emissions Method Code: **1**
8. Calculation of Emissions: **Annual NOX =360,000 lb $NaNO_3$/yr x 0.24 lb/lb $NaNO_3$ ÷ 2000 lb/ton = 43.2 ton/yr**	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

Appendix K

Summary of Emissions Increases and Decreases by Emission Unit

Attachment K
Summary of PM, Lead, and NOx Emissions Increases for Emission Units

Pollutant	Emission Unit	Past Actual Emissions (ton/yr)	Future Allowable Emissions (ton/yr)	Net Emissions Increase (ton/yr)	Comments
NOx	Feed Dryer	0	9.20	9.20	New emission unit
	Reverb Furnace	0	105.12	105.12	New emission unit
	Blast Furnace	1.27	13.14	11.87	
	Kettle Refining	31.94	62.76	30.82	
	Kettle Combustion	1.47	8.76	7.29	
	Propane Vaporizer	0	1.1	1.10	New emission unit
	Emergency Generator	0	2.41	2.41	New emission unit
	Slurry Heaters	0	1.38	1.38	New emission unit
	Total	**34.7**	**203.9**	**169.2**	
PM10	Battery Breaker	4.58	4.82	0.24	Formerly fugitive, to be controlled by a scrubber
	Feed Dryer	0			PM emissions from new dryer and new reverb furnace will be combined with existing blast furnace. All three units will be controlled by baghouses.
	Reverb Furnace	0			
	Blast Furnace	1.63	8.45	6.82	
	Furnace Tap & Charge	0.94			Emissions from furnace tap/charge and kettle refining will be combined in the new hygiene baghouse.
	Kettle Refining	0.26	11.74	10.54	
	Kettle Combustion	0.11	1.33	1.22	
	Blast Fugitives	15.57			Fugitive emissions from the both furnaces, kettle refining, and casting will be ventilated to a new Torit collector.
	Refining Fugitives	0.012			
	Casting Fugitives	0.012	36.60	21.01	
	Soda Ash Silos	0.010	0.360	0.35	
	Plastics Bins	0	0.070	0.07	New Emission Unit
	Plastics Plant	0	0.530	0.53	New Emission Unit
	Propane Vaporizer	0	0.030	0.03	New Emission Unit
	Emergency Generator	0	0.010	0.01	New Emission Unit
	Slurry Heaters	0	0.050	0.05	New Emission Unit
	Roadway Fugitives	0.068	0.129	0.06	Adjusted to reflect 90% control from wet suppression.
	Total	**23.2**	**64.1**	**40.9**	
Lead	Battery Breaker	0.058	0.337	0.28	Future emissions reflect revised BACT limit.
	Feed Dryer	0			
	Reverb Furnace	0			
	Blast Furnace	0.370	0.220	-0.150	Future emissions reflect revised BACT limit.
	Furnace Tap & Charge	0.104			
	Kettle Refining	0.010	0.205	0.090	Future emissions reflect revised BACT limit.
	Blast Fugitives	0.392			
	Refining Fugitives	0.004			
	Casting Fugitives	0.004	0.160	-0.240	Future emissions reflect revised BACT limit.
	Roadway Fugitives	0.028	0.036	0.008	Adjusted to reflect 90% control from wet suppression.
	Total	**0.97**	**0.96**	**-0.01**	