TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



EXAMPLE A

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN AIR PERMIT RENEWAL

PERMIT NUMBER 48862

APPLICATION Thomas Redi-Mix Company, Inc., has applied to the Texas Commission on Environmental Quality (TCEQ) for renewal of Air Quality Permit Number 48862, which would authorize continued operation of a Concrete Batch Plant located at 3600 West Loop 335 North, Amarillo, Potter County, Texas 79108. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=35.265&Ing=-101.876944&zoom=13&type=r. The existing facility is authorized to emit the following air contaminants: particulate matter including particulate matter with diameters of 10 microns or less and 2.5 microns or less.

This application was submitted to the TCEQ on January 21, 2021. The application will be available for viewing and copying at the TCEQ central office, TCEQ Amarillo regional office, and at https://www.enviroag.com/documents, beginning the first day of publication of this notice. The facility's compliance file, if any exists, is available for public review in the Amarillo regional office of the TCEQ.

The executive director has determined the application is administratively complete and will conduct a technical review of the application. Information in the application indicates that this permit renewal would not result in an increase in allowable emissions and would not result in the emission of an air contaminant not previously emitted. The TCEQ may act on this application without seeking further public comment or providing an opportunity for a contested case hearing if certain criteria are met.

PUBLIC COMMENT You may submit public comments, or a request for a contested case hearing to the Office of the Chief Clerk at the address below. The TCEQ will consider all public comments in developing a final decision on the application. The deadline to submit public comments is 15 days after newspaper notice is published. After the deadline for public comments, the executive director will prepare a response to all relevant and material, or significant public comments. Issues such as property values, noise, traffic safety, and zoning are outside of the TCEQ's jurisdiction to address in the permit process.

After the technical review is complete the executive director will consider the comments and prepare a response to all relevant and material, or significant public comments. If only comments are received, the response to comments, along with the executive director's decision on the application, will then be mailed to everyone who submitted public comments or who is on the mailing list for this application, unless the application is directly referred to a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING You may request a contested case hearing. The applicant or the executive director may also request that the application be directly referred to a contested case hearing after technical review of the application. A contested case hearing is a legal proceeding similar to a civil trial in state district court. Unless a written request for a contested case hearing is filed within 15 days from this notice, the executive director may act on the application. **If no hearing request is received within this 15 day period, no further opportunity for hearing will be provided.** According to the Texas Clean Air Act § 382.056(o) a contested case hearing may only be granted if the applicant's compliance history is in the lowest classification under applicable compliance history requirements and if the hearing request is based on disputed issues of fact that are relevant and material to the Commission's decision on the application. Further, the Commission may only grant a hearing on those issues submitted during the public comment period and not withdrawn.

A person who may be affected by emissions of air contaminants from the facility is entitled to request a hearing. If requesting a contested case hearing, you must submit the following: (1) your name (or for a group or

association, an official representative), mailing address, daytime phone number; (2) applicant's name and permit number; (3) the statement "[I/we] request a contested case hearing;" (4) a specific description of how you would be adversely affected by the application and air emissions from the facility in a way not common to the general public; (5) the location and distance of your property relative to the facility; (6) a description of how you use the property which may be impacted by the facility; and (7) a list of all disputed issues of fact that you submit during the comment period. If the request is made by a group or association, one or more members who have standing to request a hearing must be identified by name and physical address. The interests the group or association seeks to protect must also be identified. You may also submit your proposed adjustments to the application/permit which would satisfy your concerns. Requests for a contested case hearing must be submitted in writing within 15 days following this notice to the Office of the Chief Clerk at the address below.

If any requests for a contested case hearing are timely filed, the Executive Director will forward the application and any requests for a contested case hearing to the Commissioners for their consideration at a scheduled Commission meeting. Unless the application is directly referred to a contested case hearing, the executive director will mail the response to comments along with notification of Commission meeting to everyone who submitted comments or is on the mailing list for this application. The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material air quality concerns submitted during the comment period. Issues such as property values, noise, traffic safety, and zoning are outside of the Commission's jurisdiction to address in this proceeding.

MAILING LIST In addition to submitting public comments, you may ask to be placed on a mailing list for this application by sending a request to the Office of the Chief Clerk at the address below. Those on the mailing list will receive copies of future public notices (if any) mailed by the Office of the Chief Clerk for this application.

AGENCY CONTACTS AND INFORMATION Public comments and requests must be submitted either electronically at www14.tceq.texas.gov/epic/eComment/, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the Public Education Program toll free at 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Thomas Redi-Mix Company, Inc., P.O. Box 5664, Amarillo, Texas 79117-5664 or by calling Mr. Shane Self, P.E. Enviro-Ag Engineering, Inc. at (806) 353-6123.

Notice Issuance Date: January 26, 2021



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118 Central Texas: 9855 FM 847 Dublin TX 76446

New Mexico: 203 East Main Street Artesia NM 88210

January 8, 2021

Via STEERS

TCEQ Air Permits Initial Review Team (APIRT) MC-161 PO Box 13087 Austin, TX 78711-3087

Re:

Air Permit Renewal Application for Concrete Batch Plants – Permit No. 48862

Thomas Redi-Mix Company, Inc. - CN602602500, RN101989226

Batch Plant No. 2 – Potter County, Texas

Dear Sir or Madam,

Thomas Redi-Mix Company has requested us to assist them in the concrete batch plant permit renewal of Permit No. 48862. Enclosed please find the completed NSR PI-1 General Application Workbook and supporting documentation for the above-referenced permit renewal. The renewal fee has been submitted through STEERS.

Should you have any questions or require additional information, please call me.

Respectfully Submitted,

Shane Self, P.E.

Enviro-Ag Engineering, Inc.

Enclosures

Cc: TCEQ Region 1 Office, Amarillo

Thomas Redi-Mix Company, Inc.

EAE file

For Concrete Batch Plants Form PI-1 General Application Renewal for Permit 48862

Prepared for:

Thomas Redi-Mix Company, Inc.
P.O. Box 5664
Amarillo, Texas 79117
January 2020

Site:

The facility is located approximately 2200 ft east of the intersection of Western Street and Loop Highway 335, Amarillo, TX



3404 Airway Blvd. • Amarillo, Texas 79118 Tel (806) 353-6123 • Fax (806) 353-4132 www.enviroag.com

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SECTION 1 TCEQ CORE DATA FORM



TCEQ Core Data Form

TCEQ Use Only	

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION	UN	I:	G	en	era	al	In) t	ori	ma	tio	n

1. Reason for Submission (If other is checked please describe in space provided.)													
☐ New Permit, Registration or Authorization (<i>Core Data Form should be submitted with the program application.</i>)													
□ Renewa	Renewal (Core Data Form should be submitted with the renewal form)												
2. Customer	Referenc	e Number <i>(if iss</i>	sued)	Follow	this lin	nk to sea	3. Regulated Entity Reference Numb				e Number (if issued)	
CN 6026	02500			for CN	or RN	number: egistry**		RI	V 101	989	9226		
SECTION	ECTION II: Customer Information												
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)													
 □ New Customer □ Update to Customer Information □ Change in Regulated Entity Ownership □ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) 													
													! !!!. !!
		ne submittea f State (SOS)	,	•				_				rrent ana	active with the
6. Customer	Legal Nar	ne (If an individua	l, print last nam	e first: eg	g: Doe,	John)			If new (Cust	omer, enter previ	ious Custom	er below:
7. TX SOS/CI	PA Filing I	Number	8. TX State	Tax ID	(11 digit	ts)		•	9. Fede	eral	Tax ID (9 digits)	10. DUN	S Number (if applicable)
11. Type of C	Customer:	☐ Corporati	ion			Individu	ıal	ı	F	Partr	nership: 🔲 Gener	al 🔲 Limited	
Government:	City (County Federal	☐ State ☐ Other	r		Sole Pr	opriet	torshi			Other:		
12. Number o			251-500			nd highe	•				ndently Owned	and Opera	ted?
14. Custome	r Role (Pro	posed or Actual) -	- as it relates to					n this f	orm. Ple	lease	check one of the	following	
Owner		Opera	tor		<u></u> 0	wner &	Opera	ator					
Occupatio	nal License	ee 🗌 Respo	nsible Party		☐ Vo	oluntary	Clea	nup A	pplicar	nt	Other:		
45.44.													
15. Mailing Address:													
	City			St	tate			ZIP				ZIP + 4	
16. Country I	Mailing Inf	ormation (if outsi	ide USA)				17. E	-Mail	Addre	ess	(if applicable)		
18. Telephon	e Number			19. Ex	ctensio	on or C	ode				20. Fax Numbe	r (if applical	ole)
()	-										()	-	
SECTION	III: Re	egulated Er	ntity Info	rmati	ion								
			•			ty" is se	lected	d belo	w this i	form	should be acco	mpanied by	a permit application)
	ulated Enti	•	to Regulated	•		,					Intity Information	. ,	, , , ,
		•	_	•		ed in a	ordei	r to r	neet	TCE	EQ Agency D	ata Stand	lards (removal
		ndings such				, ,, .		,	,				
Ĭ		ame (Enter name	or the site wher	re the reg	guiated	action is	s takiri	ig plac	e.)				
Concrete Batch Plant 2													

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23. Street Addres	s of	3600	<u>W.</u>	Loop	335 1	V.										
the Regulated Entity: (No PO Boxes)																
		City		Ama	arillo		State	TX	Z	<u>ZIP</u>	791	17		ZIP + 4		
24. County		Potter	•													
			En	ter Ph	ysical L	ocat	ion Description	on if no	street	t address	is pr	ovided.				
25. Description to Physical Location																
26. Nearest City	•										State			Ne	are	st ZIP Code
27. Latitude (N) Ir	n Decim	al:								gitude (W	/) In [ecimal:				
Degrees		Minutes				Secor)egrees			Minutes			S	econds
35			1:	5			54			101			52			37
29. Primary SIC C	Cod e (4 d	ligits) 3	30. S	Second	lary SIC	Cod	le (4 digits)	31 . Pr (5 or 6		NAICS Co	ode	32 . 9 (5 or 6		ndary NA s)	AIC:	S Code
3273								3273					U	•		
33. What is the Pr	rimary E	Business	s of	this er	ntity?	(Do n	ot repeat the SIC	or NAICS	S descript	tion.)		II.				
Supplier of Co	oncrete	e Read	ly N	Лiх												
04.14.11									P.O. Bo	ox 5664						
34. Mailing Address:																
Address.		City		Aı	marillo		State	TX	(ZIP		79117		ZIP + 4		
35. E-Mail Ad	ddress:							trm	@thon	nasredim	ix.xoı	n				
36. 7	Геlерhо	ne Numl	ber				37. Extensio	n or Co	ode			38. Fax Nu	umbe	er <i>(if app</i>	lica	able)
(806)38	81-8485										(806)	381-60		
9. TCEQ Programs orm. See the Core Data	and ID	Number	r s Ch	neck all	Program:	s and	write in the per	mits/reg	istration	numbers t	hat wi	I be affected	d by t	he update	s su	ıbmitted on this
Dam Safety	a 1 01111 111		tricts	addition	iai gaidai	Edwards Aquifer				☐ Emissions Inventory Air			Τc	☐ Industrial Hazardous Waste		
,												<u>, </u>				
☐ Municipal Solid W	/aste	☐ New	v Sol	urce Re	view Air	Г	□ OSSF [☐ Petroleum Storage Tank				PWS		
Sludge		Stor	rm W	/ater			Title V Air	Tires				☐ Used Oil			il	
_						<u> </u>				_				_		
☐ Voluntary Cleanu	р	Was	ste W	Vater		L] Wastewater A	gricultur	re L	Water R	ights	ghts Other:				
CECTION IN	. D		T	C												
40. Slave 6		<u>parer</u>	1111	IOTIII	ation											
Name: Snane S								41. T		P.E.						
42. Telephone Nur		3. Ext./C	code)	44. Fax	k Nu	mber	45.	E-Mail	Address						
(806) 353-612	3 4	156			()	-	sse	elf@ei	nviroag	.con	1				
SECTION V:	Autl	<u>horize</u>	<u>d S</u>	Signa	<u>ature</u>											
6. By my signature ignature authority to dentified in field 39.	submit															
Company:	Thoma	s Redi-M	∕lix, I	nc.				Job	Title:							
Name (In Print):											F	hone:	() -		
Signature:												ate:				

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SECTION 2 TCEQ FORM PI-1 GENERAL APPLICATION

I. Applicant Information I acknowledge that I am submitting an authorized TCEQ application workbook and any necessary attachments. Except for inputting the requested data and adjusting row height and I agree column width, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections. A. Company Information Company or Legal Name: Thomas Redi-Mix Company, Inc. Permits are issued to either the facility owner or operator, commonly referred to as the applicant or permit holder. List the legal name of the company, corporation, partnership, or person who is applying for the permit. We will verify the legal name with the Texas Secretary of State at (512) 463-5555 or at: https://www.sos.state.tx.us Texas Secretary of State Charter/Registration 12238935915 Number (if given): B. Company Official Contact Information: must not be a consultant Mr. Prefix (Mr., Ms., Dr., etc.): First Name: John Last Name: Thomas Title: Vice President Mailing Address: P.O. Box 5664 Address Line 2: Amarillo City: State: TX ZIP Code: 79117 Telephone Number: 806-381-8485 Fax Number: 806-381-0060 Email Address: trm@thomasredimix.com C. Technical Contact Information: This person must have the authority to make binding agreements and representations on behalf of the applicant and may be a consultant. Additional technical contact(s) can be provided in a cover letter. Prefix (Mr., Ms., Dr., etc.): Mr. First Name: Shane Last Name: Self P.E. Title: Company or Legal Name: Enviro-Ag Engineering, Inc. Mailing Address: 3404 Airway Blvd. Address Line 2: City: Amarillo State: TX ZIP Code: 79118 Telephone Number: 806-353-6123 Fax Number: 806-353-4132 Email Address: sself@enviroag.com D. Assigned Numbers

The CN and RN below are assigned when a Core Data Form is initially submitted to the Central Registry. The RN is also assigned if the agency has conducted an investigation or if the agency has issued an enforcement action. If these numbers have not yet been assigned, leave these questions blank and include a Core Data Form with your application submittal. See Section VI.B. below for additional information.

Enter the CN. The CN is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity.

602602500

Enter the RN. The RN is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used when applying for authorization at a different location.

101989226

II. Delinguent Fees and Penalties

Does the applicant have unpaid delinquent fees and/or penalties owed to the TCEQ? This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee No and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at:

https://www.tceq.texas.gov/agency/financial/fees/delin

III. Permit Information

A. Permit and Action Type (multiple may be selected, leave no blanks)

Additional information regarding the different NSR authorizations can be found at: https://www.tceq.texas.gov/permitting/air/guidance/authorize.html

Select from the drop-down the type of action being requested for each permit type. If that permit type does not apply, you MUST select "Not applicable".

Provide all assigned permit numbers relevant for the project. Leave blank if the permit number has not yet been assigned.

Permit Type	Action Type Requested (do not leave blank)	Permit Number (if assigned)
Minor NSR (can be a Title V major source): Not applicable, Initial, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Relocation/Alteration, Change of Location, Alteration, Extension to Start of Construction	Renewal	
Special Permit: Not applicable, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Alteration, Extension to Start of Construction	Not applicable	
De Minimis: Not applicable, Initial	Not applicable	
Flexible: Not applicable, Initial, Amendment, Renewal, Renewal Certification, Renewal/Amendment, Alteration, Extension to Start of Construction	Not applicable	
PSD: Not applicable, Initial, Major Modification	Not applicable	
Nonattainment: <i>Not applicable, Initial, Major</i> <i>Modification</i>	Not applicable	
HAP Major Source [FCAA § 112(g)]: <i>Not</i> applicable, <i>Initial, Major Modification</i>	Not applicable	
PAL: Not applicable, Initial, Amendment, Renewal, Renewal/Amendment, Alteration	Not applicable	
GHG PSD: Not applicable, Initial, Major Modification, Voluntary Update	Not applicable	

B. MSS Activities			
How are/will MSS activities for sources associated			
with this project be authorized?	De Minimis		
List the permit number, registration number, and/or		48862	
PBR number.		10002	
C. Consolidating NSR Permits Will this permit be consolidated into another NSR pe	armit with this act	ion?	No
will this permit be consolidated into another Nort pe	erriit with this act	ion:	NO
Will NSR permits be consolidated into this permit wi	th this action?		No
D. Incorporation of Standard Permits, Standard I	Exemptions, and	d/or Permits By Rule (PBR)	
To ensure protectiveness, previously issued authorized	,	•	,
including those for MSS, are incorporated into a per and/or amendment, consolidation (in some cases) n			
regarding incorporation can be found in 30 TAC § 1:			
	, , , ,	. ,	
https://www.tceq.texas.gov/assets/public/permitting/		pc06.pdf	
Are there any standard permits, standard exemption be incorporated by reference?	is, or PBRs to	No	
And the second DDD at an ideal account in a second and			
Are there any PBR, standard exemptions, or standa associated to be incorporated by consolidation? No :	•		
calculations, a BACT analysis, and an impacts analy		No	
attached to this application at the time of submittal for	or any		
authorization to be incorporated by consolidation.			
E. Associated Federal Operating Permits			

Is this facility located at a site required to obtain a s	ite operating permit (SOP) or general operating	No
permit (GOP)?		
IV Facility Loc	ation and General Information	
A. Location	ation and General information	
County: Enter the county where the facility is		
physically located.	Potter	
TCEQ Region	Region 1	
County attainment status as of Sept. 23, 2019	attainment or unclassified for all pollutants	
Street Address:	3600 W. Loop 335 N.	
City: If the address is not located in a city, then	COOC 11. ECOP CCC 11.	
enter the city or town closest to the facility, even if	Amarillo	
it is not in the same county as the facility.	7 and and	
ZIP Code: Include the ZIP Code of the physical		
facility site, not the ZIP Code of the applicant's	79117	
mailing address.	73117	
Site Location Description: If there is no street		
address, provide written driving directions to the		
site. Identify the location by distance and direction		
from well-known landmarks such as major highway		
intersections.		
Use USGS maps, county maps prepared by the Tex	vas Department of Transportation, or an online soft	vare application
such as Google Earth to find the latitude and longitu	·	ware application
Latitude (in degrees, minutes, and nearest second		
(DDD:MM:SS)) for the street address or the		
destination point of the driving directions. Latitude		
is the angular distance of a location north of the	35d15'54"	
equator and will always be between 25 and 37		
degrees north (N) in Texas.		
Longitude (in degrees, minutes, and nearest		
second (DDD:MM:SS)) for the street address or		
the destination point of the driving directions.		
Longitude is the angular distance of a location west	101d52'37"	
of the prime meridian and will always be between		
93 and 107 degrees west (W) in Texas.		
· , ,	r facility, and/or a hazardaya wasta managament	
Is this a project for a lead smelter, concrete crushing facility?	g facility, and/or a nazardous waste management	
If yes, does the project meet the distance limitations	Slicted in 20 TAC & 116 1122	
B. General Information	s listed III 30 TAC § 110.112?	
Site Name:	Thomas Redi-Mix Primary Plant	
Area Name: Must indicate the general type of	Themae real with Filmary Flank	
operation, process, equipment or facility. Include		
numerical designations, if appropriate. Examples		
are Sulfuric Acid Plant and No. 5 Steam Boiler.		
Vague names such as Chemical Plant are not		
acceptable.		
Are there any schools located within 3,000 feet of		
the site houndary?	No	

C. Portable Facility			
Permanent or portable facility?		Portable	
Serial number of the equipment to	he authorized:	T CHASIS	
Serial number of the equipment to			
D. Industry Type			
Principal Company Product/Busine	SS:	Ready Mix Concrete	
A list of SIC codes can be found at		,	
https://www.naics.com/sic-codes-in	dustry-drilldown/		
Principal SIC code:	<u> </u>	3273	
NAICS codes and conversions bety	ween NAICS and	SIC Codes are available at:	
https://www.census.gov/eos/www/r			
Principal NAICS code:		327320	
E. State Senator and Representa	tive for this site		
		is not compatible to Internet Explorer):	
https://wrm.capitol.texas.gov/		, ,	
State Senator:		Kel Seliger	
District:		31	
State Representative:		Four Price	
District:		87	
	V. P	Project Information	
A. Description			
Provide a brief description of the			
project that is requested. (Limited			
to 500 characters).	Concrete Batch	Plant renewal	
B. Project Timing			
Authorization must be obtained for	many projects be	efore beginning construction. Construction is broad	lly interpreted as
anything other than site clearance	or site preparatio	n. Enter the date as "Month Date, Year" (e.g. July	4, 1776).
Projected Start of Construction:	Currently in Ope		
Projected Start of Operation:	Currently in Ope	eration	
C. Enforcement Projects			
• • • • • • • • • • • • • • • • • • • •	r related to, an aເ	gency investigation, notice of violation, or	No
enforcement action?			140
D. Operating Schedule			
Will sources in this project be author			No
If no, provide details in your permit		erials.	T
Does this facility operate seasonall	y?		No
		P. C. M. C. J.	
All manners and the		pplication Materials	1:4: 1 111
		d operation procedures contained in the permit app	Discation shall be
conditions upon which the permit is		8 110.170)	
A. Confidential Application Mate		otion?	N
Is confidential information submitte	u with this applica	auun:	No

B. Is the Core Data Form (Form 10400) attached?	Yes
https://www.tceq.texas.gov/assets/public/permitting/centralregistry/10400.docx	
C. Is a current area map attached?	
Is the area map a current map with a true north arrow, an accurate scale, the entire plant property, the location of the property relative to prominent geographical features including, but not limited to, highways, roads, streams, and significant landmarks such as buildings, residences, schools, parks, hospitals, day care centers, and churches?	Yes
Does the map show a 3,000-foot radius from the property boundary?	Yes
D. Is a plot plan attached?	
Does your plot plan clearly show a north arrow, an accurate scale, all property lines, all emission points, buildings, tanks, process vessels, other process equipment, and two bench mark locations?	Yes
Does your plot plan identify all emission points on the affected property, including all emission points authorized by other air authorizations, construction permits, PBRs, special permits, and standard permits?	Yes
Did you include a table of emission points indicating the authorization type and authorization identifier, such as a permit number, registration number, or rule citation under which each emission point is currently authorized?	Yes
E. Is a process flow diagram attached?	
Is the process flow diagram sufficiently descriptive so the permit reviewer can determine the raw materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions)?	Yes
F. Is a process description attached?	
Does the process description emphasize where the emissions are generated, why the emissions must be generated, what air pollution controls are used (including process design features that minimize emissions), and where the emissions enter the atmosphere?	Yes
Does the process description also explain how the facility or facilities will be operating when the maximum possible emissions are produced?	Yes
G. Are detailed calculations attached? Calculations must be provided for each source with new	·
or changing emission rates. For example, a new source, changing emission factors, decreasing emissions, consolidated sources, etc. You do not need to submit calculations for sources which are not changing emission rates with this project. Please note: the preferred format is an electronic workbook (such as Excel) with all formulas viewable for review. It can be emailed with the submittal of this application workbook.	Yes
Are emission rates and associated calculations for planned MSS facilities and related activities attached?	N/A
H. Is a material balance (Table 2, Form 10155) attached?	Yes
Table 2 (Form 10155), entitled Material Balance: A material balance representation may be required for	or all

Table 2 (Form 10155), entitled Material Balance: A material balance representation may be required for all applications to confirm technical emissions information. Typically this is required for refining and chemical manufacturing processes involving reactions, separations, and blending. It may also be requested by the permit reviewer for other applications. Table 2 should represent the total material balance; that is, all streams into the system and all streams out. Additional sheets may be attached if necessary. Complex material balances may be presented on spreadsheets or indicated using process flow diagrams. All materials in the process should be addressed whether or not they directly result in the emission of an air contaminant. All production rates must be based on maximum operating conditions.

I. Is a list of MS	S activities attached?	N/A
	on of state regulatory requirements attached, addressing 30 TAC Chapters 101,	N/A
111, 112, 113, 1	15, and 117?	14/7 (
K Are all other	required tables, calculations, and descriptions attached?	
N. Ale all other	required tables, calculations, and descriptions attached:	
	VII. Signature	
The owner or or	perator of the facility must apply for authority to construct. The appropriate company offi	icial (owner.
•	president, vice president, or environmental director) must sign all copies of the applicat	•
	ultant cannot sign the application. Important Note: Signatures must be original in ir	
• •	photocopy, fax, or other means, and must be received before any permit is issue	•
'	,	
The almost		1 414 41
•	pelow confirms that I have knowledge of the facts included in this application and	
	nd correct to the best of my knowledge and belief. I further state that to the best belief, the project for which application is made will not in any way violate any p	•
_	ode (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382; the Texas	
	quality rules of the Texas Commission on Environmental Quality; or any local go	
•	esolution enacted pursuant to the TCAA. I further state that I understand my sign	
	ation meets all applicable nonattainment, prevention of significant deterioration,	
• •	rdous air pollutant permitting requirements. The signature further signifies aware	•
	knowingly making or causing to be made false material statements or represent	ations in the
application is a	criminal offense subject to criminal penalties.	
	_	
Name:		
Signaturo:		
Signature:		
	Original signature is required.	

Date:

Texas Commission on Environmental Quality Form PI-1 General Application Renewals

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

I. Type of Permit Renewal and Associated Actions								
A. Current Operations								
Do all dockside vessel emissions a the commission and with the intent public and minimization of emission practices? (30 TAC § 116.311(a)(1	of the health and property of the nt with good air pollution	N/A						
Is the facility being operated in accordincluding representations in the apparany previously granted renewal, un	d subsequent amendments, and	Yes						
Are there any permit actions pendir	ng before the TCE	EQ?		No				
Have any qualified facility changes renewed?	under 30 TAC §	116.116(e) occui	red since originally issued or last	Yes				
Have emission factors changed sin	ce the last permit	ting action?		No				
B. Changes Made Since Last Am	endment or Ren	ewal						
Have any of the following changes	been made to or	proposed for the	facilities covered by this permit si	nce it was last				
amended or renewed and are not o	urrently authorize	ed by a PBR, star	ndard permit, or other authorization	n? Select "Yes"				
Construction of a new emission sou	ırce?			No				
The emission of new chemical spec	cies or a change i	n character of er	nissions?	No				
An increase in emission rates on a	short term or ann	ual basis? (This	includes increases of a criteria	No				
pollutant as well as increases of a	chemical species.)		INO				
A change in the method of emission thermal oxidizer or flare?	n control if the em	nission control is	a source itself, such as a	No				
Are new pollutants being added in	the renewal proce	ess, not currently	listed in the permit?	No				
If "yes" to any question in Section				ired before the				
permit can be renewed.								
	II. Federa	l Regulatory Qu	estions					
Indicate if any of the following requi				lations apply to				
minor sources. Enter all applicable	Subparts.							
A. Title 40 CFR Part 60								
Do NSPS subpart(s) apply to a	Yes							
facility in this application?	100							
If applicable, list applicable								
subparts you will demonstrate	Subpart OOO, II	ll and JJJJ						
compliance with (e.g. Subpart M)								
B. Title 40 CFR Part 61								

Texas Commission on Environmental Quality Form PI-1 General Application Renewals

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

Do NESHAP subpart(s) apply to a facility in this application?	No
C. Title 40 CFR Part 63	
Do MACT subpart(s) apply to a facility in this application?	Yes
If applicable, list applicable subparts you will demonstrate compliance with (e.g. Subpart VVVV)	Subpart ZZZZ

III. Renewal Certification	
A. Renewal Certification Eligibility Determination	
Select "Yes" or "No" to answer each question.	
Does the permitted facility emit an air contaminant on the watch list and is the permitted facility ocated in the area on the watch list?	No
s the permitted facility required to participate in the Houston/Galveston Area (HGA) cap and trade program for highly reactive VOCs? In addition, do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)?	No
Does the company have an unsatisfactory compliance history?	No
s the permit a Flexible Permit or an Existing Facilities Flexible Permit?	No
Does this permit require the inclusion of marine loading emissions?	No
s there a concurrent amendment application being submitted for this permit?	No
s there a permit amendment application currently under review for this permit?	No
s the addition of Compliance Assurance Monitoring conditions required with this renewal?	No
Are scheduled maintenance, startup, or shutdown emissions not authorized by PBR or standard permit, required to be authorized in the permit?	No
Are there any facilities that have been shutdown that are proposed to be removed from the permit at he time of renewal?	No
Have the emissions factors changed for any source or have the emissions calculation methodology changed for any source?	No
s this permit being consolidated into another permit or are other NSR permits being consolidated into his permit as part of this renewal?	No
s there inclusion of any sources never before identified but always present and previously represented?	Yes
The Renewal Certification option cannot be used. Be sure to change your response on the General St	neet, Section II

you selected renewal certification. Then continue to the next sheet.

Texas Commission on Environmental Quality Form PI-1 General Application Technical

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

E. Concrete Batch Plants					
Is this a project for a concrete batch plant? Yes					
We must notify the applicable coun	nty judge and presiding officer when a permit, amendment, renewal, and/or change				
	te batch plant is received. This information can be obtained at:				
https://www.txdirectory.com	water leading for the classification where the facility is an will be becaused.				
The Honorable:	Inty Judge for the location where the facility is or will be located: Nancy Tanner				
Mailing Address:	500 South Filmore, Suite 103				
Address Line 2:	300 South Filmore, Suite 103				
City:	Amarillo				
State:	Texas				
ZIP Code:	79101				
Is the facility located in a municipal	lity or an				
extraterritorial jurisdiction of a mun					
	e Presiding Officer(s) of the municipality. This is frequently the Mayor. An				
attachment may be used for multip					
First Name:	Ginger				
Last Name:	Nelson				
Title:	Mayor				
Mailing Address:	601 S. Buchanan				
Address Line 2:					
0.1	A '11				
City:	Amarillo				
State:	Texas				

Permit #: 48862 Company: Thomas Redi-Mix Company, Inc.

Date: 12/22/20

I. Public Notice Applicability					
A. Application Type	A. Application Type				
Is this an application for a renewal?		Yes			
		4			

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

B Renewal Certificat	ion Only: List all n	ollutants listed on	VOUR CURRENT MAE	RT including any		
B. Renewal Certification Only: List all pollutants listed on your current MAERT including any HAPs. These pollutants may be included in the Public Notice.						
			Yes			
If no, proceed to Section III Small Business Classification.						
Note: public notice applicability for this project may change throughout the technical review.						
D. Are any HAPs to be authorized/re-authorized with this project? The category "HAPs" must be specifically listed in the public notice if the project authorizes (reauthorizes for renewals) any				No		
be specifically listed in HAP pollutants.	trie public notice if t	ne project authorize	es (reaumorizes for r	enewais) any		
nar polititants.						

II. Public Notice Information

Complete this section if public notice is required (determined in the above section) or if you are not sure if public notice is required.

A. Contact Information

Enter the contact information for the **person responsible for publishing.** This is a designated representative who is responsible for ensuring public notice is properly published in the appropriate newspaper and signs are posted at the facility site. This person will be contacted directly when the TCEQ is ready to authorize public notice for the application.

Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Shane
Last Name:	Self
Title:	P.E.
Company Name:	Enviro-Ag Engineering, Inc.

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

Mailing Address:	3404 Airway Blvd
Address Line 2:	
City:	Amarillo
State:	Texas
ZIP Code:	79118
Telephone Number:	806-350-5456
Fax Number:	
Email Address:	sself@enviroag.com
Enter the contact information for the Te	chnical Contact. This is the designated representative who will be listed in the public notice
as a contact for additional information.	
Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Shane
Last Name:	Self
Title:	P.E.
Company Name:	Enviro-Ag Engineering, Inc.
Mailing Address:	3404 Airway Blvd
Address Line 2:	
City:	Amarillo
State:	Texas
ZIP Code:	79118
Telephone Number:	806-350-5456
Fax Number:	
Email Address:	sself@enviroag.com

B. Public place

Place a copy of the full application (including all of this workbook and all attachments) at a public place in the county where the facilities are or will be located. You must state where in the county the application will be available for public review and comment. The location must be a public place and described in the notice. A public place is a location which is owned and operated by public funds (such as libraries, county courthouses, city halls) and cannot be a commercial enterprise. You are required to pre-arrange this availability with the public place indicated below. The application must remain available from the first day of publication through the designated comment period.

If this is an application for a PSD, nonattainment, or FCAA §112(g) permit, the public place must have internet access available for the public as required in 30 TAC § 39.411(f)(3).

If the application is submitted to the agency with information marked as Confidential, you are required to indicate which specific portions of the application are not being made available to the public. These portions of the application must be accompanied with the following statement: Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087.

Name of Public Place:	Due diligence search for public notice	Due diligence search for public notice place available for public viewing in Potter County,			
Physical Address:	3	1 3 - 7,			
Address Line 2:					
City:					
ZIP Code:					
County:					
Has the public place granted authorization to place the application for public viewing and copying?		Yes			

Permit #: 48862 Company: Thomas Redi-Mix Company, Inc.

Date: 12/22/20

C.	Alternate	Language	Publication

In some cases, public notice in an alternate language is required. If an elementary or middle school nearest to the facility is in a school district required by the Texas Education Code to have a bilingual program, a bilingual notice will be required. If there is no bilingual program required in the school nearest the facility, but children who would normally attend those schools are eligible to attend bilingual programs elsewhere in the school district, the bilingual notice will also be required. If it is determined that alternate language notice is required, you are responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

in that language.				
Is a bilingual program required by the Texas Education Code in the School District?		No		
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?		No		

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

III. Small Business Classification

Complete this section to determine small business classification. If a small business requests a permit, agency rules (30 TAC § 39.603(f)(1)(A)) allow for alternative public notification requirements if all of the following criteria are met. If these requirements are met, public notice does not have to include publication of the prominent (12 square inch) newspaper notice.

Does the company (including parent companies and subsidiary companies) have fewer than 100 employees or less than \$6 million in annual gross receipts?	Yes
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program?	No
Are the site emissions of any individual air contaminant greater than or equal to 50 tpy?	No
Are the site emissions of all air contaminants combined greater than or equal to 75 tpy?	No
Small business classification:	Yes

Date: 12/22/20 Permit #: 48862

Company: Thomas Redi-Mix Company, Inc.

	V. Renew	al Fee			
The fee for renewal is based on the			s from the permitted facilit	ty to be	;
renewed. If this project includes an a					
Enter the total allowable emissions (
represented in any PBR or standard	permits to be incorp	orated by c	onsolidation into this		4.143
permit.					
Permit fee due				\$	600.00
	VI. Total	Fees			
	VI. TOtal	1 663			
Renewal Fee				\$	600.00
	VII. Payment I	nformation			
A. Payment One (required)				I	
Was the fee paid online? Enter the fee amount:				Yes	600.00
Enter the check, money order, ePay	Voucher or other tr	ansaction		\$	600.00
number:	voucher, or other tr	ansaction			
Enter the Company name as it appe	ars on the check:				

SECTION 3 FACILITY MAPS

Figure 3.1 – Vicinity/USGS 7.5-Minute Quadrangle Map

Figure 3.1, entitled Vicinity/USGS 7.5-Minute Quadrangle Map. The location of the facility is depicted on the map.

Figure 3.2 – USGS 7.5-Minute Quadrangle Map

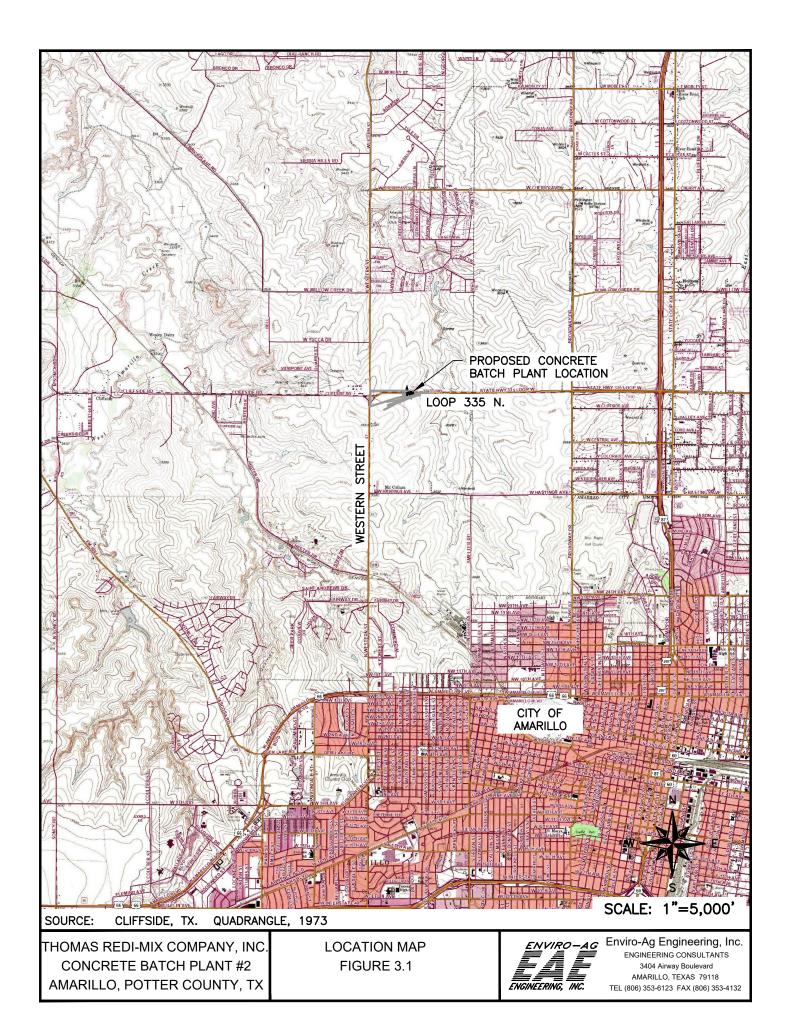
Figure 3.2, entitled USGS 7.5-Minute Quadrangle Map is a seamless, high-quality copy of the 7.5-minute USGS quadrangle map that depicts the location of the property of the land operated by the owner.

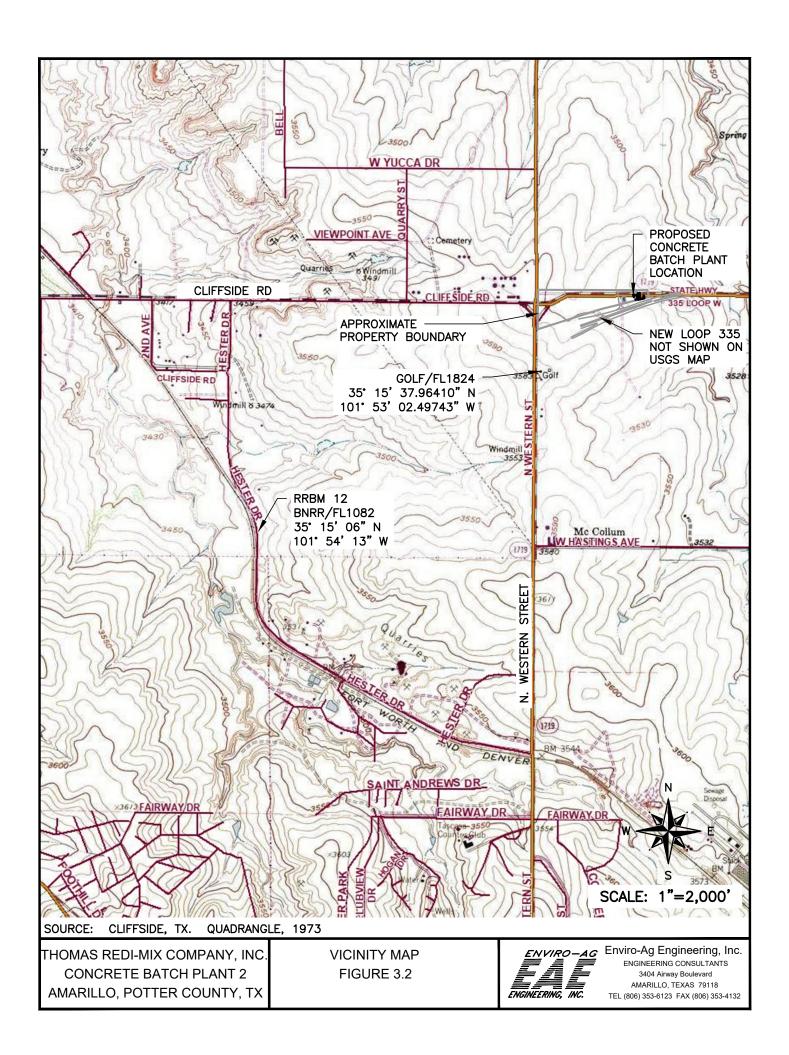
Figure 3.3 & 3.4 – Site Plot Plan A and Site Plot Plan B

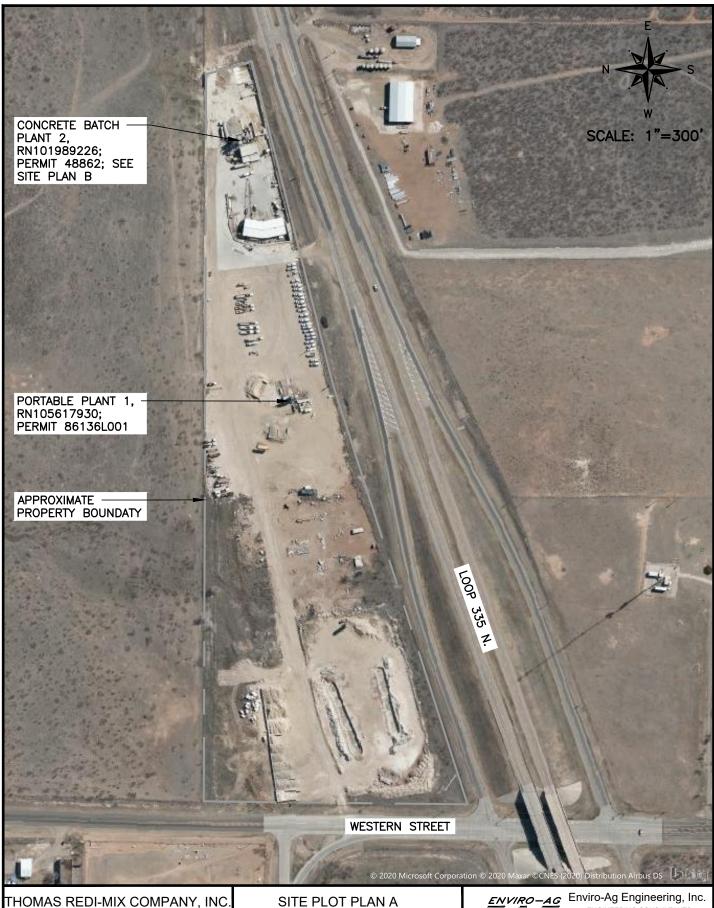
Figure 3.3, entitled Site Plot Plan A is an aerial image of the site showing the extents of the property in relation to existing plans on site. Figure 3.4, entitled Site Plot Plan B, is a scaled drawing depicting a north arrow, all property lines, emission points, buildings, tanks, process vessels, other process equipment.

Figure 3.5 – Process Flow Diagram

Figure 3.5, entitled Proposed Process Flow Diagram, shows the concrete batch plant batching process. Each item that is involved in the process is labeled, the items in the process that release emissions are labeled as emission points.



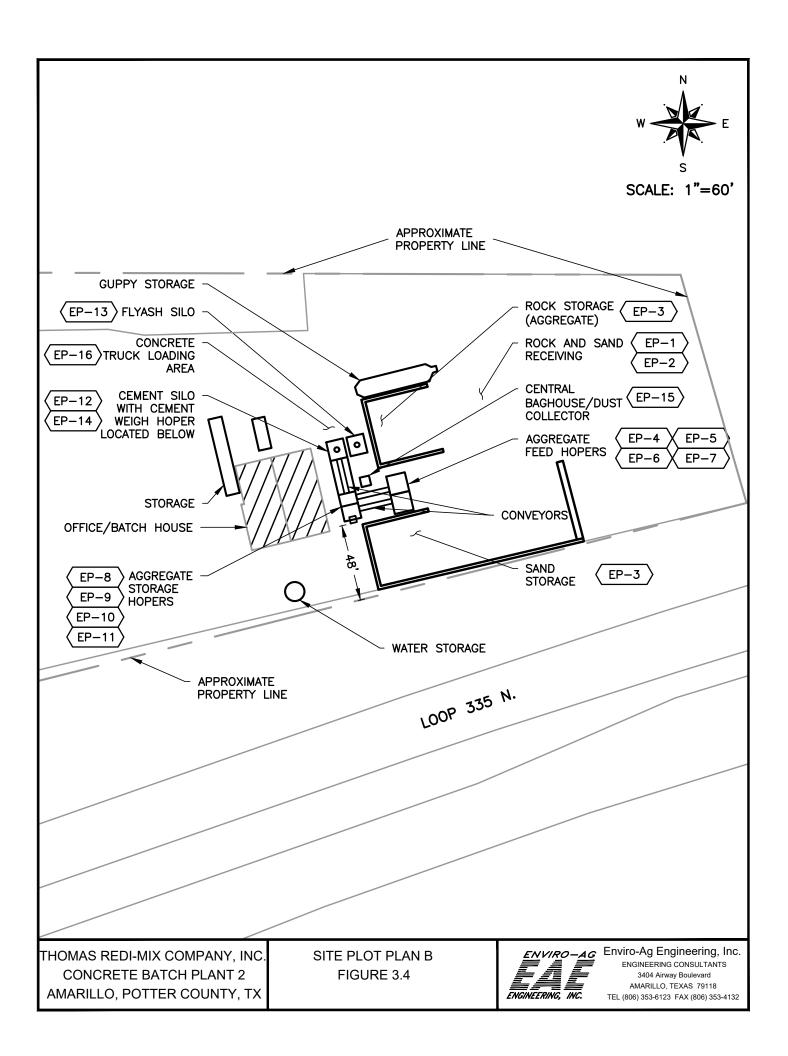


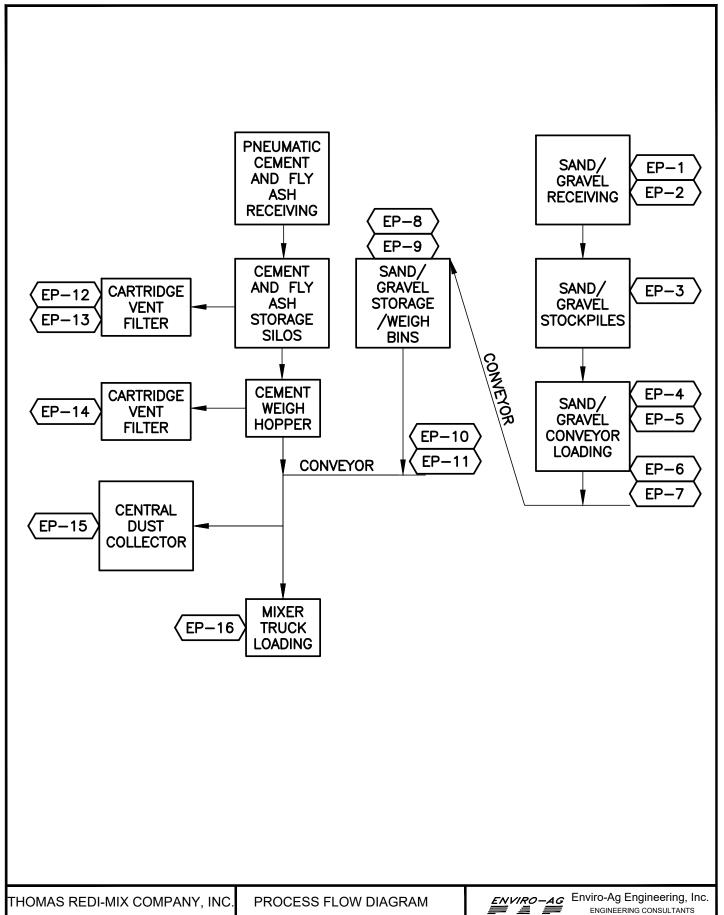


THOMAS REDI-MIX COMPANY, INC CONCRETE BATCH PLANT 2 AMARILLO, POTTER COUNTY, TX SITE PLOT PLAN A AERIAL IMAGE FIGURE 3.3



Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132





CONCRETE BATCH PLANT 2 AMARILLO, POTTER COUNTY, TX FIGURE 3.5



SECTION 4 BATCH PLANT - OPERATION DISCUSSION

Sand is delivered to the site in dump trucks with a capacity of 25 tons each at a maximum rate of two trucks per hour. Gravel is delivered in 25-ton dump trucks and hopper trucks at a maximum rate of two trucks per hour. The sand and gravel will be dumped on the ground and stockpiled with a 2.5 cubic yard front end loader. Emission points for sand and gravel receiving are represented as EP1 and EP2 respectively. All aggregate stockpiles are watered to control dust (EP3). All plant roads are to be watered or cleaned as needed to prevent a nuisance condition.

The sand and gravel are loaded separately into their designated aggregate feed hoppers with a front-end loader (EP4 and EP5). As needed, the sand and gravel is dropped onto a conveyor (EP6 and EP7) that transports the materials to the weigh hoppers where the materials empty/drop into the designated hoppers (EP8 and EP9). During batching operations, sand and gravel are released from the weigh hoppers at a feed rate for the given batch design, onto a conveyor (EP10 and EP11) that transports the materials to a point where they are dumped into the concrete mixer truck.

The cement is weighed in its own weigh ben and is loaded directly into the back of the truck. A central dust collector is connected to a shroud at the discharge point, or the point where materials are dumped (EP16) into the concrete truck. The central dust collector pulls suction from the shroud, through ductwork connecting with the dust collector assembly where the cement/sand/gravel dust is filtered. The filtered air discharges out the top of the top of the central dust collector (EP 15). Mixer truck loading is considered a dry process.

Cement will be delivered to the site in 25 ton loads via pneumatic trailers. Pneumatic trailers convey the cement/fly ash from the trailer into two storage silos. The cement storage silo and fly ash silos are both equipped with a cartridge filter (EP12 & EP13, respectfully) assembly's that filter cement/fly ash particulate during the cement/flyash transferring process. Cement and fly ash is gravity fed from silo storage to the cement weigh hopper. The cement weigh hopper also has its own cartridge vent filter (EP14) to filter particulate matter during transfer. A maximum of two trucks per hour can be delivered.

After the rock, sand, and cement are in the mixer trucks, water is added to form concrete. The water helps to eliminate further fugitive emissions. A maximum of 720,000 lbs per hour of all ingredients (cement, sand, rock, and water) will be dropped into the mixer trucks.

Maintenance Startup and Shutdown (MSS) calculations are included in the maximum production rates. TCEQ's Mechanical Sources, Current Best Available Control Technology guidelines will be utilized.

SECTION 5 EMISSIONS DATA – CONCRETE BATCH PLANT

TCEQ ATTACHED CALCULATION SPREAD SHEET

General Plant Information

This worksheet is used to document the material composition and maximum expected production level. The values entered will be used to calculate the estimated emission rates in subsequent worksheets within this workbook.

Instructions:

1. Enter the requested information in the input cells below, or if prompted, select the appropriate answer from the drop-down menu provided.

Operating Schedule	hours/day	days/week	weeks/year	hours/year	
	14	7	52	5,096	
Concrete Production Rate	yd ³ / hour	yd³/ year			
	150	150,000			
Type of Batch Plant	Truck or Central Mix?				
	Truck Mix				

Concrete Composition

Control Composition		
Would you like to use the default concrete?	Yes	
Material	Default (lbs/yd3)	
Aggregate	1,865	
Sand	1,428	
Cement	491	
Supplement	73	

Maximum Material Mass Flow Rate

Material	ton/hr	ton/yr
Aggregate	139.9	139,875.0
Sand	107.1	107,100.0
Cement	36.8	36,825.0
Supplement	5.5	5,475.0

Material Handling & Stockpile Emissions

This worksheet is used to calculate emissions from material handling and stockpiles. Enter the requested information in the input cells, or if prompted, select the appropriate answer using the drop-down menu provided.

A list of commonly accepted emission control methods and their associated efficiency ratings are provided below:

Wet material = 50%

Water sprays = 70%

Chemical foam = 80%

Partial enclosure = 50 - 85%

Full enclosure = 90%

Enclosed by building = Up to 90%

Washed material = 95%

Washed material with water spray = 98.5%

Material Handling - Coarse Aggregate Transfer Points

Enter the number of Aggregate Transfer Points	5	Maximum Mass Flow Rate (ton/hr)	
Use the maximum material mass flow rate?	Yes	Maximum Mass Flow Rate (ton/yr)	139,8

Emission Point Number	2	5	7	9	11
Hourly Mass Flow Rate (ton/hr) = 140					
Annual Mass Flow Rate (ton/yr) = 139,875					
Control Type	Wet Material				
Control Efficiency (%)	50	50	50	50	50
PM (lb/hr)	0.4826	0.4826	0.4826	0.4826	0.4826
PM (ton/yr)	0.2413	0.2413	0.2413	0.2413	0.2413
PM ₁₀ (lb/hr)	0.2308	0.2308	0.2308	0.2308	0.2308
PM ₁₀ (ton/yr)	0.1154	0.1154	0.1154	0.1154	0.1154
PM2.5 (lb/hr)	0.0349	0.0349	0.0349	0.0349	0.0349
PM _{2.5} (ton/yr)	0.0175	0.0175	0.0175	0.0175	0.0175

Material Handling - Sand Transfer Points

Enter the number of Sand Transfer Points	5	Maximum Mass Flow Rate (ton/hr)	107
Use the maximum material mass flowrate?	Yes	Maximum Mass Flow Rate (ton/yr)	107,100

Emission Point Numbers	1	4	6	8	10
Hourly Mass Flow Rate (ton/hr) = 107					
Annual Mass Flow Rate (ton/yr) = 107,100					
Control Type	Wet Material				
Control Efficiency (%)	50	50	50	50	50
PM (lb/hr)	0.1125	0.1125	0.1125	0.1125	0.1125
PM (ton/yr)	0.0562	0.0562	0.0562	0.0562	0.0562
PM ₁₀ (lb/hr)	0.0530	0.0530	0.0530	0.0530	0.0530
PM ₁₀ (ton/yr)	0.0265	0.0265	0.0265	0.0265	0.0265
PM2.5 (lb/hr)	0.0080	0.0080	0.0080	0.0080	0.0080
PM _{2.5} (ton/yr)	0.0040	0.0040	0.0040	0.0040	0.0040

Raw Material Stockpile Emissions

Stockpile Emission Point Number	3
Stockpile Area (acres)	0.5
Control Type	Wet Material
Control Efficiency (%)	50
Number of Active Days per Year	351
PM Inactive Emissions (ton/yr)	0.0061
PM ₁₀ Inactive Emissions (ton/yr)	0.0031
PM _{2.5} Inactive Emissions (ton/yr)	0.0005
PM Active Emissions (ton/yr)	0.5792

PM ₁₀ Active Emissions (ton/yr)	0.2896
PM _{2.5} Active Emissions (ton/yr)	0.0434
TOTAL PM Emissions (ton/yr)	0.5853
TOTAL PM ₁₀ Emissions (ton/yr)	0.2926
TOTAL PM _{2.5} Emissions (ton/yr)	0.0439

Silo Emissions

This worksheet is used to calculate emissions from storage silos. Enter the requested information in the input cells below, or if prompted, select the appropriate answer from the drop-down menu provided.

Cement Silo Emissions

How many cement silos? (Up to 4)	1
Would you like to use the manufacturer's filter efficiency?	No

Emission Factors - Cement Silo		
lb _{PM} /ton	lb _{PM10} /ton	lb _{PM2.5} /ton
0.00099	0.00034	0.00006

Cement Silo EPN(s)	12
Hourly Loading Rate (ton/hr)	37
Annual Loading Rate (ton/yr)	36,825
Controlled Emission Factors Used	
PM (lb/hr)	0.0365
PM (ton/yr)	0.0182
PM ₁₀ (lb/hr)	0.0125
PM ₁₀ (ton/yr)	0.0063
PM _{2.5} (lb/hr)	0.0021
PM _{2.5} (ton/yr)	0.0011

Supplement Silo Emissions

How many supplement silos? (Up to 4)	1
Would you like to use the manufacturer's filter efficiency?	No

Emission Factors - Supplement Silo		
lb _{PM} /ton	lb _{PM10} /ton	lb _{PM2.5} /ton
0.0089	0.0049	0.0008

Cement Supplement Silo EPN(s)	13
Hourly Loading Rate (ton/hr)	5
Annual Loading Rate (ton/yr)	5,475
Controlled Emission Factors Used	
PM (lb/hr)	0.0487

PM (ton/yr)	0.0244
PM10 (lb/hr)	0.0268
PM10 (ton/yr)	0.0134
PM2.5 (lb/hr)	0.0046
PM2.5 (ton/yr)	0.0023

Cement/Supplement Weigh Hopper Emissions

Is there a cement/supplement weigh hopper?	Yes
What is the EPN for the cement/supplement weigh hopper?	14
Is it equipped with its own dust collector?	Yes

Please select your preferred method of calculating emissions from the dust collector:	Outlet Grain Loading				
	Flow Rate (acfm)	150			
	Outlet Loading (gr/acfm)	0.01			
	PM (lb/hr)	0.0000			
	PM (ton/yr)	0.0000			
	PM10 (lb/hr)	0.0000			
	PM10 (ton/yr)	0.0000			
	PM2.5 (lb/hr)	0.0000			
	PM2.5 (ton/yr)	0.0000			

Loading and Baghouse Emissions

This worksheet is used to calculate emissions from a baghouse stack and truck/mixer loading. Enter the requested information in the input cells below, or if prompted, select the appropriate answer from the drop-down menu provided. Emission rates are automatically calculated and displayed in the table at the bottom of the worksheet.

Truck Loading Information

What is the EPN for fugitive emissions from central/truck mixer loading?	16
What is the central baghouse stack EPN?	15
What is the central baghouse efficiency? (%)	99.99
Use the Default Suction Shroud Capture Efficiency?	Yes

97.3

Default Capture Efficiency % =

Maximum Throughput								
Material ton/hr ton/yr								
Aggregate	140	139,875						
Sand	107	107,100						
Cement	37	36,825						
Supplement	5	5,475						

Truck Loading Emission Factors							
lb _{PM} /ton	lb _{PM2.5} /ton						
1.118	0.310	0.053					

Pollutant	Central Baghouse Stack Emission Rates	Truck Loading Fugitive Emission Rates
PM (lb/hr)	0.0046	1.2769
PM (ton/yr)	0.0023	0.6384
PM10 (lb/hr)	0.0013	0.3541
PM10 (ton/yr)	0.0006	0.1770
PM2.5 (lb/hr)	0.0002	0.0605
PM2.5 (ton/yr)	0.0001	0.0303

Emissions Summary Table

This worksheet compiles and displays the calculated emission rates for each source of air emissions listed within this workbook.

	Р	M	PN	/ 110	PM2.5		
Emission Point Number(s)	Name	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
2, 5, 7, 9, 11, 1, 4, 6, 8, 10	Material Handling	2.975	1.488	1.419	0.710	0.215	0.107
3	Stockpiles	-,	0.585		0.293	-,	0.044
15	Central Baghouse Stack	0.005	0.002	0.001	< 0.001	< 0.001	< 0.001
16	Loading Fugitives	1.277	0.638	0.354	0.177	0.061	0.030
14	Cement Weigh Hopper	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
12	Cement Silo	0.036	0.018	0.013	0.006	0.002	0.001
13							
13	Supplement Silo	0.049	0.024	0.027	0.013	0.005	0.002

References

The purpose of this worksheet is to provide information regarding the source of emission factors and capture efficiencies that were used througout this workbook. Emission Factors are in units of pound (lb) of pollutant per ton of material (see footnote "a" from AP-42 Ch. 11.12 Table 11.12-2) unless specified otherwise.

Concrete Composition

The default composition of concrete is from AP-42 Ch. 11.12 Concrete Batching. Footnote "a" from AP-42 Ch. 11.12 Table 11.12-2

Material Handling - Sand and Aggregate Transfer Points

The emission factors are from AP-42 Ch. 11.12 Table 11.12-2. The PM2.5 emission factors are based on a ratio of the aerodynamic particle size multipliers (k multiplier) represented in Aggregate Handling and Storage Piles AP-42 Ch. 13.2.4. The emission factors for PM and PM10 listed in Ch. 11.12 for material transfer points are derived using the Aggregate Handling and Storage Piles AP-42 Ch. 13.2.4 equation. See AP-42 Ch. 11.12 Table 11.12-2 footnote. "b"

Raw Material Stockpile Emissions

Emission Factors for the stockpiles have the following units: Ib of pollutant per acre per day. The PM active and inactive emission factors are from "Cowherd, Jr., C. Development Of Emission Factors For Fugitive Dust Sources. EPA document Number. EPA-450/3-74-037. Research Triangle Park: U. S. Environmental Protection, 1974". PM10 is estimated as 50% of PM based on the "k" factors listed in Aggregate Handling and Storage Piles AP-42 Ch. 13.2.4. The PM2.5 factor is derived from a ratio listed in the Background Document for Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors (Ch. 13.2) and "k" factors listed in Aggregate Handling and Storage Piles AP-42 Ch. 13.2.4.

Material Silos

The emission factors are from AP-42 Ch. 11.12 Table 11.12-2. Emission factor units are lb of pollutant per ton of material. The emission factor for PM2.5 was assumed to be 17.1% of PM10. The value of 17.1% represents the percentage of PM10 that is PM2.5 according to the worst case loading emission factors for a truck mix operation. The PM2.5 factors listed in the AP-42 documents for truck and mixer loading are based on lbPM2.5 per ton cement and cement supplement (see Loading Emission Rates). The worst case percentage of PM2.5 in PM10 from the EPA loading factors is 17.1%.

Cement/Supplement Weigh Hopper Emissions

Emission factors are not quantified for this potential emission point. Since an emission factor was not quantified there are three preferred approaches: assume the emissions negligible if it is vented to another device meeting BACT; treat it as a material drop point and apply a control efficiency; and the outlet grain loading method. The control efficiency method is used in conjunction with the Aggregate Handling and Storage Piles AP-42 Ch. 13.2.4 equation to estimate emissions. The same wind speed used to develop the aggregate drop point emission factors listed in AP-42 Ch. 11.12 Table 11.12-2 was used in the Ch.13 Equation. The lowest acceptable moisture content of 0.25% was assumed.

Loading Emission Rates

PM emission factor units are lb of pollutant per ton of cement and cement supplement. Emission factors (PM & PM10) are from AP-42 Ch. 11.12 Table 11.12-2. The emission factors for PM2.5 are located in AP-42 Ch. 11.12 Background Document Table 18.6. The default emissions captured by the suction shroud is the average listed in AP-42 Ch 11.12 Background Document Table 17.1 and Table 17.2.

SECTION 6 TABLE 2

Texas Commission on Environmental Quality Table 2 Material Balance

This material balance table is used to quantify possible emissions of air contaminants and special emphasis should be placed on potential air contaminants, for example: If feed contains sulfur, show distribution to all products. Please relate each material (or group of materials) listed to its respective location in the process flow diagram by assigning emission point numbers (taken from the flow diagram) to each material.

List every material involved in each of the following groups	Emission Point No. from Flow Diagram	Process Rate ¹ Check appropriate column at right to indicate process rate method.	Measurement	Estimation	Calculation
Raw Materials - Input		Rock – 139.9 ton/hr Sand – 107.1 ton/hr Cement – 491 ton/hr Supplement – 5.5 ton/hr		X	
Fuels - Input					
Products and By-Products - Output		Concrete-150 cubic yards/hr		X	
Solid Wastes - Output					
Liquid Wastes - Output					
Airborne Waste (Solid) - Output					
Airborne Wastes (Gaseous) - Output					

¹ Specify the process rate of the facility using conventional engineering units (e.g., bbl/d, lb/yr, SCFM), and indicate the units next to each number. Standard Conditions: are 68°F 14.7 psia (30 Texas Administrative Code, Section 101.1(99).

SECTION 7 TABLE 11



Tables, checklists, and guidance documents pertaining to air quality permits are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division (APD) Web site at www.tnrcc.state.tx.us/permitting/airperm.

Zuam	ydanty (TCEQ) All Termits Division (ALD) web site at www.tincc.state.tx.us/permitting/airperm.									
	Emission Point Number and name (from Process Flow Diagram): EP-12									
2. M	Ianufacturer and model i	number (if a	vailable)): C&W Manufa	acturing	, CP-305				
3. N	3. Name of source(s) or equipment being controlled: Cement Silo Cartridge Vent Filter									
4. T	ype of particulate contro	olled: Partic	culate M	atter						
5.			GAS ST	REAM CHARA	CTERI	STICS				
Design Maximum Flow Rate (acfm) Average Expected Flow Rate (acfm) Gas Stream Temperature (°F) Loading (grain/scf)										
2000	0	2000		Ambient		Inlet:		Outlet: 0.01		
	Pressure Drop (inches of H ₂ O)	Water Va		tent of Effluent S er/lb dry air)	tream		Rec	Fan quirements		
 						hp:		ft³/min:		
6.		PAR	TICUL	ATE DISTRIBU	JTION (By Weight)				
	Micron Range			Inlet (Perc	centage)			Outlet (Percentage)		
	0.0-0.5									
	0.5-1.0									
	1.0-5.0									
	5-10									
	10-20									
	over 20									
7.			FIL	TER CHARACT	TERIST	ICS				
_ 	Filtering Velocity (acfm/ft² of Cloth)	Ba	g Diame	eter (inches)	·	Bag Length (fe	eet)	Total Number of Bags		
		8			3.25			12		
8.	Bag rows will be:		St	taggered	✓	Straight				
9.	Will walkways be prov	vided between	en banks	of bags?:			YES	✓NO		
10.	Filtering material: Sp	pun Bonder	d Polyes	ster						
11.	Describe bag cleaning	, method and	cycle.:	Pulse Jet						
12.	2. Capital installed cost \$ \$6,000.00 Annual operating cost \$ \$1,000.00									

Note: Attach the details regarding the principle of operation and an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size and shape.

If the device has bypasses, safety valves, etc., include in the drawing and specify when such bypasses are to be used and under what conditions.



Tables, checklists, and guidance documents pertaining to air quality permits are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division (APD) Web site at www.tnrcc.state.tx.us/permitting/airperm.

Zuum	ty (TCDQ) IIII T CIIIIto D	17101011 (711	2, 1100 ,	Site at WWW.tille	J.Btate.tz	r.as/permitting/	an perm.		
	Emission Point Number and name (from Process Flow Diagram): EP-13								
2. N	Manufacturer and model i	number (if a	vailable)): WAM, SILOT	OP R0	1			
3. N	Name of source(s) or equi	ipment being	g control	led: Fly Ash Si	ilo Cartr	idge Vent Filt	.er		
4. T	4. Type of particulate controlled: Particulate Matter								
5.	. GAS STREAM CHARACTERISTICS								
	Design Maximum Flow Rate (acfm) Average Expected Flow Rate (acfm) Gas Stream Temperature (°F) Loading (grain/scf)								
150	00	1500		Ambient		Inlet: 30		Outlet: 0.01	
	Pressure Drop (inches of H ₂ O)	Water Va		tent of Effluent S er/lb dry air)	tream		Rec	Fan quirements	
8						hp:		ft³/min:	
6.		PAR	TICUL	ATE DISTRIBU	JTION ((By Weight)			
	Micron Range			Inlet (Perc	centage)	1		Outlet (Percentage)	
	0.0-0.5								
	0.5-1.0								
	1.0-5.0								
	5-10								
	10-20								
	over 20								
7.			FIL	TER CHARACT	TERIST	TICS			
	Filtering Velocity (acfm/ft² of Cloth)	Ва	g Diame	eter (inches)		Bag Length (feet)		Total Number of Bags	
		16.7			3			7	
8.	Bag rows will be:		St	taggered	✓	Straight			
9.	Will walkways be prov	vided betwe	en banks	of bags?:			YES	✓NO	
10.	Filtering material: 8	oz. Spun B	onded F	olyester					
11.	Describe bag cleaning	method and	cycle.:	Pulse Jet					
12	Capital installed cost \$ \$6,000.00 Annual operating cost \$ \$1,000.00								

Note: Attach the details regarding the principle of operation and an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size and shape.

If the device has bypasses, safety valves, etc., include in the drawing and specify when such bypasses are to be used and under what conditions.



Tables, checklists, and guidance documents pertaining to air quality permits are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division (APD) Web site at www.tnrcc.state.tx.us/permitting/airperm.

Zuum	dunty (1000) This of this bit is in the bit we site at www.timee.state.tx.tas/perintening/airperint.									
	Emission Point Number and name (from Process Flow Diagram): EP-14									
2. N	Manufacturer and model	number (if a	vailable)): WAM FCIJOS	3					
3. N	Name of source(s) or equi	ipment being	g control	led: Cement Ba	atcher \	√ent				
4. T	4. Type of particulate controlled: Particulate Matter									
5.	. GAS STREAM CHARACTERISTICS									
	Design Maximum Flow Rate (acfm)									
150)	150		Ambient		Inlet: 30		Outlet: .01		
	Pressure Drop (inches of H ₂ O)	Water Va		tent of Effluent St er/lb dry air)	tream		Rec	Fan quirements		
.375	5					hp: N/A		ft³/min: N/A		
6.		PAR	TICUL	ATE DISTRIBU	TION ((By Weight)				
	Micron Range			Inlet (Perc	centage)			Outlet (Percentage)		
	0.0-0.5									
	0.5-1.0									
	1.0-5.0									
	5-10									
	10-20									
	over 20									
7.			FIL	TER CHARACT	ΓERIST	AICS				
_	Filtering Velocity (acfm/ft² of Cloth)	Ва	g Diame	eter (inches)		Bag Length (fe	et)	Total Number of Bags		
6		5.25			1.66			3		
8.	Bag rows will be:		St	taggered		Straight				
9.	Will walkways be pro-	vided betwe	en banks	of bags?:			YES	✓NO		
10.	Filtering material: Sp	punbound F	olyeser	r, 9 oz per sq. yo	d					
11.	Describe bag cleaning	, method and	l cycle.:	Pulse Jet						
12	Capital installed cost \$ \$6,000.00 Annual operating cost \$ \$1,000.00									

Note: Attach the details regarding the principle of operation and an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size and shape.

If the device has bypasses, safety valves, etc., include in the drawing and specify when such bypasses are to be used and under what conditions.



Tables, checklists, and guidance documents pertaining to air quality permits are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division (APD) Web site at www.tnrcc.state.tx.us/permitting/airperm.

Quarty (102Q) 7th 10thits 21715ton (1112) web site at www.three.state.tx.us/permitting/un/perm.									
1. Eı	mission Point Number a	ind name (fr	om Proce	ess Flow Diagram	ı): EP-	15			
2. M	2. Manufacturer and model number (if available): C & W, Model CP-535C								
3. N	ame of source(s) or equi	ipment bein	g control	led: Baghouse	Filter fo	or Concrete B	atch Plant		
4. T	ype of particulate contro	olled: Partio	culate M	atter					
5.			GAS ST	REAM CHARA	.CTERI	STICS			
	Design Maximum Flow Rate (acfm)	Avera Expec Flow Rate	eted	Gas Strear Temperature				culate Grain ng (grain/scf)	
5000	0	5000		Ambient		Inlet:		Outlet:	
	Pressure Drop (inches of H ₂ O)	Water Va		tent of Effluent Ser/lb dry air)	tream		Rec	Fan quirements	
						hp: 10		ft ³ /min: 5000	
6.		PAR	TICUL	ATE DISTRIBU	TION ((By Weight)			
	Micron Range			Inlet (Perc	centage)	1		Outlet (Percentage)	
	0.0-0.5								
	0.5-1.0								
	1.0-5.0								
	5-10								
	10-20								
	over 20								
7.			FIL	TER CHARACT	ΓERIST	TICS			
	Filtering Velocity (acfm/ft ² of Cloth)	Ва	g Diamet	ter (inches)		Bag Length (feet)		Total Number of Bags	
9.35	· · · · · · · · · · · · · · · · · · ·	8			6.5			6	
8.	Bag rows will be:		St	aggered		Straight			
9.	Will walkways be prov	vided betwe	en banks	of bags?:			YES	NO	
10.	Filtering material: 10	00% Polyes	ster						
11.	Describe bag cleaning	method and	cycle.:	Pulse Jet					
12.	Capital installed cost \$ \$25,000.00 Annual operating cost \$ \$1,000.00								

Note: Attach the details regarding the principle of operation and an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size and shape.

If the device has bypasses, safety valves, etc., include in the drawing and specify when such bypasses are to be used and under what conditions.