

December 31, 2024

New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Sante Fe, New Mexico 87505-1816

Re: New Minor Source Construction Permit

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

To Whom It May Concern:

EnSafe Inc., on behalf of GCC Sun City Materials, LLC, (GCC) is submitting the attached application for a new minor source construction permit under New Mexico Administrative Code (NMAC) 20.2.72.200.A to consolidate all site operations at GCC's Vado Site, located at 10795 Las Alturas Drive, Mesquite, New Mexico 88048, into a single permit. The new construction permit will authorize the replacement and relocation onsite of the existing rock crushing operations (minor NSR permits 942 and 2112, and GCP-2-4384) and modification of the existing hot mix asphalt operations (GCP-3-4449) to allow for continuous (24/7) operations. The project will also serve to cease operations of the existing concrete batch plant (minor NSR permit 943). Upon issuance of the new permit, the existing permits can be voided.

EnSafe looks forward to interacting with the New Mexico Environment Department during the processing of this application. Should there be any questions, please do not hesitate to contact the undersigned at 832-561 5336 or Mr. Octavio Holguin, Jr., Environmental Engineer, GCC Sun City Materials, LLC, at 915-564-1653.

Sincerely,

EnSafe Inc.

By: Shawn Haven

Senior Project Manager

Enclosed: New minor source construction permit application

Universal Air Quality Permit Application Form UA1

Mail Application To:

New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505

Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb



For Department use only:	
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Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well.

This application is submitted as (check all that apply): Request for a No Permit Required Determination (no fee) Updating an application currently under NMED review. Include this page and all pages that are being updated (no fee required). Construction Status: Not Constructed Existing Permitted (or NOI) Facility Existing Non-permitted (or NOI) Facility Minor Source: NOI 20.2.73 NMAC 20.2.72 NMAC application or revision 20.2.72.300 NMAC Streamline application Title V Source: Title V (new) Title V renewal TV minor mod. TV significant mod. TV Acid Rain: New Renewal PSD Major Source: PSD major source (new) Minor Modification to a PSD source a PSD major modification
Acknowledgements:
🔯 I acknowledge that a pre-application meeting is available to me upon request. 🔲 Title V Operating, Title IV Acid Rain, and NPR
applications have no fees.
\$500 NSR application Filing Fee enclosed OR □ The full permit fee associated with 10 fee points (required w/ streamline)
applications).
☐ Check No.: 000000749 in the amount of \$500
☑ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a
separate page.
I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/ .
This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this
application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form
has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information:
www.env.nm.gov/air-quality/small-biz-eap-2/.)
Citation: Please provide the low level citation under which this application is being submitted: 20.2.72.200.A NMAC
e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is
20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Sec	tion 1-A: Company Information	AI # if known:	Updating Permit/NOI #:
	Facility Name:	Plant primary SIC C	ode (4 digits): 1422
1	GCC Vado Site	Plant NAIC code (6	digits): 212312
а	Facility Street Address (If no facility street address, provide direction 10795 Las Alturas Drive, Mesquite, New Mexico 88048	ns from a prominent landm	nark):
2	Plant Operator Company Name: GCC Sun City Materials, LLC	Phone/Fax: (915) 5	64-1653
а	Plant Operator Address: #1 McKelligon Canyon Rd., El Paso, TX. 79	930	

b	Plant Opera	tor's New Mexico Corporate ID or Tax	(ID:			
3	Plant Owne	r(s) name(s): Frank Mayfield			Phone/Fax: (9	15) 565-4681
а	Plant Owne	r(s) Mailing Address(s): #1 McKelligor	Canyon Rd., El Pas	o, TX.	79930	
4	Bill To (Com	pany): GCC Sun City Materials, LLC			Phone/Fax: (9	15) 564-1653
a	Mailing Add	ress: #1 McKelligon Canyon Rd., El P	aso, TX. 79930		E-mail: fmayf	ield@gcc.com
5	Preparer:	: Shawn Haven, EnSafe Inc.			Phone/Fax: 83	32-561-5336
а	Mailing Add		on, Texas 77079		E-mail: shave	n@ensafe.com
6	Plant Opera	itor Contact:			Phone/Fax:	
а	Address:				E-mail:	
7	Air Permit (Contact: Octavio Holguin Jr.			Title: Environ	mental Engineer
а	E-mail: oho	lguin@gcc.com			Phone/Fax: (9	215) 564-1653
b	Mailing Add	dress: #1 McKelligon Canyon Rd., El P	aso, TX. 79930			
С	The designa	ated Air permit Contact will receive al	official corresponde	ence (i.e. letters, pe	rmits) from the Air Quality Bureau.
Sec	tion 1-B:	Current Facility Status				
1.a	The crushin	ility already been constructed? 🔯 Ye g plant has not been constructed at t lication. The asphalt plant has already	he time of this	New	v Mexico? asphalt plant i	on 1.a, is it currently operating in Yes No s currently operating in New
2		estion 1.a, was the existing facility sul) (20.2.73 NMAC) before submittal of No		toa	construction p	1.a, was the existing facility subject permit (20.2.72 NMAC) before pplication? ☑ Yes ☐ No
3	Is the facilit	ty currently shut down? 📋 Yes 📓 N	o If yes, give m	onth	and year of sh	ut down (MM/YY):
4		cility constructed before 8/31/1972 a				☐ Yes 🗵 No
5	If Yes to qu	estion 3, has this facility been modifiend $\overline{\boxtimes}$ N/A	ed (see 20.2.72.7.P N	IMAC)	or the capacit	ry increased since 8/31/1972?
6	Does this fa	acility have a Title V operating permit No	(20.2.70 NMAC)?		If yes, the per	mit No. is: P-
7	Has this fac	cility been issued a No Permit Require No	d (NPR)?		If yes, the NP	R No. is:
8	Has this fac	cility been issued a Notice of Intent (N	OI)? 🗌 Yes 🔯 No		If yes, the NO	II No. is:
9	Does this fa	acility have a construction permit (20. No	2.72/20.2.74 NMAC))?	942- unde cond	rmit No. is: rock crushing lines (2112-M1 and M1-R1) to be replaced/relocated er this permit application. One crete batch plant (943) to be down.
10	Is this facil	ity registered under a General permit No	(GCP-1, GCP-2, etc.)	?	crus	gister No. is: /cled asphalt product (RAP)/rock her (GCP-2-4384) mix asphalt plant (GCP-3-4449)
Sec	tion 1-C:	Facility Input Capacity & F	Production Rat	:e		
1		facility's maximum input capacity, spe 20 for Asphalt Plant, Ready-Mix Plan				
а	Current	Hourly:	Daily:			Annually:

b	Proposed	Hourly:	Daily:	Annually:
2	What is the See Section	facility's maximum production rate, sp 20 for Asphalt Plant, Ready-Mix Plan	pecify units (reference here and list capacities i t, and Crushing Plant maximum produc	n Section 20, if more room is required)
а	Current	Hourly:	Daily:	Annually:
b	Proposed	Hourly:	Daily:	Annually:

ion 1-D: Facility Location intol	mation			
Latitude (decimal degrees): 32.140399°	Longitude	(decimal degrees): -106.636592°	County: Dona Ana	Elevation (ft): 4013
UTM Zone: 12 or 13		Datum: NAD 83 WG	84	
UTM E (in meters, to nearest 10 meters): 345642	2.25	UTM N (in meters, to nearest 10 meters): 3557171.5	
Name and zip code of nearest New Mexic	o town: Vad	o 88048		
Detailed Driving Instructions from nearest From Vado, Drive East on County Road 2: Drive.	: NM town (a 27, turn lef t	ttach a road map if necessary): (North) on Las Alturas Drive. The f	acility is located E	ast of Las Alturas
The facility is 9 (distance) miles NNW (dire	ection) of An	thony (nearest town).		
Land Status of facility (check one):	vate 🔲 Ind	ian/Pueblo 🔲 Government 🔲 🛭	BLM Forest Se	rvice Military
List all municipalities, Indian tribes, and co	ounties with	n a ten (10) mile radius (20.2.72.20 erated: Dona Ana County, Town of	3.B.2 NMAC) of the Anthony	e property on
20.2.72 NMAC applications only: Will the than 50 km (31 miles) to other states, Ber publications/)? ☑ Yes ☐ No (20.2.72.2	property or nalillo Count 06.A.7 NMA	which the facility is proposed to b y, or a Class I area (see <u>www.env.r</u>	e constructed or o im.gov/air-quality/	modeling-
		ional Park		
Shortest distance (in km) from facility bou	undary to the	e boundary of the nearest Class I ar	ea (to the nearest 10 i	meters): 152 Km
Distance (meters) from the perimeter of t	the Area of C	perations (AO is defined as the plane nearest residence, school or occup	nt site inclusive of pied structure: 530	all disturbed) m
			•	
grade that would require special equipme	rriers approv ent to traver	red by the Department, such as rug se. If a large property is completel	ged physical terral y enclosed by fenc	in with steep ing, a restricted
Does the owner/operator intend to opera ☐ Yes ☑ No A portable stationary source is not a mob at one location or that can be re-installed	ate this sour	ce as a portable stationary source a uch as an automobile, but a source	that can be install	led permanently
Will this facility operate in conjunction w	ith other air oer (if knowr	regulated parties on the same pro of the other facility?	perty? 🔲 No	Yes
	Latitude (decimal degrees): 32.140399° UTM Zone:	UTM Zone:	Latitude (decimal degrees): 32.140399° UTM Zone:	Latitude (decimal degrees): 32.140399° Longitude (decimal degrees): -106.636592° County: Dona Ana UTM Zone:

Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility maximum operating (hours day): 24	(days week): 7	(<u>weeks</u>): 52	(hours year): 8760	
2	Facility's maximum daily operating schedule (if less	than 24 hours / Start: N/A	ZAM ZPM	End: N/A	2AM 2PM
3	Month and year of anticipated start of construction Asphalt Plant (including RAP Plant) - Existing	n: New Crushing Operations –	April 2025.		

4	Month and year of anticipated construction completion: Crushi	ng Operations	July 2025.	
5	Month and year of anticipated startup of new or modified facilit	y: Crushing Op	erations J	uly 2025.
6	Will this facility operate at this site for more than one year?	Yes 🔲 N	lo	
Sect	ion 1-F: Other Facility Information			
1	Are there any current Notice of Violations (NOV), compliance or to this facility? \square Yes \boxtimes No If yes, specify:	ders, or any oti	ner compli	ance or enforcement issues related
a	If yes, NOV date or description of issue: N/A			NOV Tracking No: N/A
b	Is this application in response to any issue listed in 1-F, 1 or 1a al If Yes, provide the 1c & 1d info below: N/A	oove? 🔲 Yes	No No	
С	Document Title: N/A	: N/A		nent # (or nd paragraph #): N/A
d	Provide the required text to be inserted in this permit: N/A			
2	Is air quality dispersion modeling or modeling waiver being subn	nitted with this	applicatio	n? 🗌 Yes 🔀 No
3	Does this facility require an "Air Toxics" permit under 20.2.72.40	0 NMAC & 20.	2.72.502, 1	「ables A and/or B? ☐ Yes ☒ No
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? 🛚 Yes	No No	
а	If Yes, what type of source?			tpy of any combination of HAPS) 5 tpy of any combination of HAPS)
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes 🛛 No			
	If yes, include the name of company providing commercial elect	ric power to th	e facility: _	
а	Commercial power is purchased from a commercial utility compon site for the sole purpose of the user.	eany, which spo	ecifically d	oes not include power generated
	on site for the sole purpose of the user.	to 20.2.72.300 l	NMAC Strea	
Sect (Title V	on site for the sole purpose of the user. ion 1-G: Streamline Application (This section applies I have filled out Section 18, "Addendum for Streamline Application 1-H: Current Title V Information - Required /-source required information for all applications submitted pursuant to (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))	to 20.2.72.300 lications."	NMAC Strea	amline applications only) This is not a Streamline application.) From TV Sources
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Sect (Title \(\frac{1}{NMAC}\) 1 a b 2 a b	ion 1-G: Streamline Application (This section applies I have filled out Section 18, "Addendum for Streamline Application 1-H: Current Title V Information - Required Information for all applications submitted pursuant to (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V)) Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): R. O. Address: Alternate Responsible Official (20.2.70.300.D.2 NMAC): A. R. O. Title: A. R. O. Address: Company's Corporate or Partnership Relationship to any other A have operating (20.2.70 NMAC) permits and with whom the app	to 20.2.72.300 Ilications." for all applio 20.2.72 NMAC R.O. e-mail: A. R.O. e-m ir Quality Pern licant for this p	NMAC Stream N/A (Cations 1 (Minor Contact Phase) Phase Pha	imiline applications only) This is not a Streamline application.) From TV Sources Struction Permits), or 20.2.74/20.2.79 Inone: The names of any companies that a corporate or partnership

5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.):
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: 15 kilometers approximately from State of Texas

Section 1-I - Submittal Requirements

Each 20.2.73 NMAC (NOI), a 20.2.70 NMAC (Title V), a 20.2.72 NMAC (NSR minor source), or 20.2.74 NMAC (PSD) application package shall consist of the following:

Hard Copy Submittal Requirements:

- 1) One hard copy original signed and notarized application package printed double sided 'head-to-toe' 2-hole punched as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use numbered tab separators in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This copy should be printed in book form, 3-hole punched, and must be double sided. Note that this is in addition to the head-to-to 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, two CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

Electronic files sent by (check one):

CD/DVD attached to paper application		
Secure electronic transfer. Air Permit Contact Name	, Email	Phone number
a. If the file transfer service is chosen by the applicant, after receivith instructions for submitting the electronic files through a set through the file transfer service needs to be completed within 3 applicant should ensure that the files are ready when sending the a password to complete the transfer. Do not use the file transfet to NSR permits.	cure file transfer service. business days after the in the hard copy of the applic	Submission of the electronic files nvitation is received, so the ation. The applicant will not need

- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If air dispersion modeling is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling <u>summary report only</u> should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

Printed: 12/20/2024

If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc,), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.
- 3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the core permit number (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the section # (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the header information throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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Section 14:	Operational Plan to Mitigate Emissions
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Form Revision: July 12, 2023

Section 19: Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)

Section 20: Other Relevant Information

Section 21: Addendum for Landfill Applications

Section 22: Certification Page

Tables
Form UA2

Application Date: December, 2024

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit and st	dck lium uering ind	One and stack light being illust collespond till odgilodt tile application	א בווחחור מוב	pplication	paruraer.	applying 10	ם ויטוים וכזו ם	(-: //aiai - / · · · ·	- danha	package, II applying for a not under course in applying for a package.			
					Manufact- urer's Rated	Requested Permitted	Date of Manufacture ²	Controlled by Unit #	Source Classi-			RICE Ignition Type	Renlacing
Unit Number ¹	Source Description	Make	Model #	Serial #	Capacity ³ (Specify Units)	Capacity ³ (Specify Units)	Date of Construction/ Reconstruction ²	Emissions vented to Stack #	fication Code (SCC)	For Each Plece of Equ	For Each Plece of Equipment, Check One	(CI, SI, 4SLB, 4SRB, 2SLB) ⁴	
	Crushing Plant HSI	Superior				4u+ 009	2025			Existing (unchanged)New/Additional	☐ To be Removed Replacement Unit		
CPCR1	Crusher	Industries/Sentry	555565			ndt uue				☐ To Be Modified	☐ To be Replaced		
	Crushing Plant Cone	Superior				4-1000	2025			☐ Existing (unchanged)	☐ To be Removed☐ Replacement Unit		
CPCR2	Crusher Patriot 300	Industries/Patriot	P300			ndi nac	THE STATE OF			☐ To Be Modified	☐ To be Replaced		
	Crushing Plant Cone	Superior	0000			300 tah	2025			☐ Existing (unchanged)	☐ To be Removed ☐ Replacement Unit		
CPCR3	Crusher Patriot 200	Industries/Patriot	P.200			100 cos					- 1		
	Crushing Plant Screen	Superior				1.000	2025			 Existing (unchanged) New/Additional 	☐ To be Removed Renfacement Unit		
CPSCRN1	Guardian 6202	Industries/Guardian	6202-1H32			ngt uud					☐ To be Replaced		
	Crushing Plant Screen	Superior	F			101 44+	2025			Existing (unchanged) New/Additional	☐ To be Removed ☐ Replacement Unit		
CPSCRNZ	Guardian 8203	Industries/Guardian	8203-1H38			IId) Toc				L.			
	Crushing Plant Screen	Superior					2025			Existing (unchanged)	☐ To be Removed		
CPSCRN3	Patriot 200	Industries/Patriot	P200			200 tph		Constraint.					
	1						2025				-		
CPTR1	Crushing Plant transfer to Conveyor 2	Stackable Plus	36" X 60'			600 tph				 ✓ New/Additional To Be Modified 	☐ Replacement Unit☐ To be Replaced		
	:						2025			1	Ι_		
CPTR2	Crushing Plant transfer to Conveyor 1	Stackable Plus	36" X 60'	38		600 tph		100 SR		New/AdditionalTo Be Modified	☐ Replacement Unit☐ To be Replaced		
	;						2025			ı			
CPTR3	Crushing Plant transfer to Stacker 1	Superior Industries/ Powerstacker Conveyor	36" X 125'			600 tph				New/Additional To Be Modified	Replacement Unit To be Replaced		
							2025			1	Γ		
CPTR4	Crushing Plant transfer to Stacker 2	Superior Industries/ Powerstacker Conveyor	36" X 150'			600 tph				☑ New/Additional☐ To Be Modified	☐ Replacement Unit ☐ To be Replaced		
	Crushing Plant	Superior Industries/					2025			Existing (unchanged)	☐ To be Removed		
CPTR5	transfer to Conveyor 3		36" X 60"			ndt Inc							
	Crushing Plant	Superior Industries/		L.		-	2025			Existing (unchanged)	☐ To be Removed		
CPTR6	transfer to Conveyor 4		36" X 60'			501 tpn				To Be Modified			
	Cricking Diant	Cuperior Industries/					2025				☐ To be Removed		
CPTR7	transfer to Conveyor 5		36" X 60'			501 tph				✓ New/Additional	To be Replaced		
		/ column from the					2025				-		
CPTR8	transfer to Stacker 3	Stackable Stackable	36" X 60'			501 tph				 ✓ New/Additional ✓ To Be Modified 	☐ Kepiacement Unit ☐ To be Replaced		
	Crushing Plant	Superior Industries/				1	2025			☐ Existing (unchanged)	☐ To be Removed☐ Replacement Unit		
CPTR9	transfer to Stacker 4	Stackable	36" X 60'			501 tph					- 1		
Form R	Form Revision: 5/3/2016						Table 2-A: Page 1	_				Printed 12/20/2024 9:39 AM	24 9:39 AM

Manufact- Requested Manufacture Unit # urer's Rated Permitted Permitted Capacity Capacity Capacity
Capacity Capacity Date of (Specify (Specify Construction/ Units) Units) Reconstruction ²
501 tph
1 000
2025 200 toh
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2025 200 tph
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2025 200 tph
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Transfer and the second
600 tph
5025 600 tph
600 tph 2025
S LINE WASHINGTON
600 tph 2025
600 tph

					Manufact-	Requested	Date of Manufacture ²	Controlled by Unit #	Source			RICE Ignition Type	
Unit Number ¹	Source Description	Make	Model #	Serial#	Capacity (Specify Units)	Capacity (Specify Units)	Date of Construction/ Reconstruction ²	Emissions vented to Stack #	fication Code (SCC)	For Each Plece of Eq	For Each Plece of Equipment, Check One	(Cl, Sl, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
CRSTK 6	Crushing Plant transfer from Stacker 6	Superior Industries/ Stackable	36" X 60'			200 tph	2025			□ Existing (unchanged)□ New/Additional□ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced		
CRSTK 7	Crushing Plant transfer from Stacker 7	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☑ New/Additional ☐ To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced		
CRSTK 8	Crushing Plant transfer from Stacker 8	Superior Industries/ Stackable	36" X 60'			200 tph	2025			□ Existing (unchanged)□ New/Additional□ To Be Modified			
WASHTR1	Wash Plant Feed Hopper	Superior Industries	8'x 17' Skid Mounted			300 tph	2025			□ Existing (unchanged) □ New/Additional □ To Be Modified			
WASHTR2	Wash Plant Feed Conveyor	Superior Industries				300 tph	2025	THE STATE OF		Existing (unchanged) New/Additional To Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced		
APTR1	Asphalt Plant Aggregate and Sand Cold Feed Bins (5)	Gencor		V5BCF- 159858-08 NA		340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged)☑ New/Additional☑ To Be Modified			
APTR2	Asphalt Plant Transfer to Conveyor 1	Gencor				340 tph aggregate/80 tph sand	2012						
APTR3	Asphalt Plant Transfer to Conveyor 2	Gencor				340 tph aggregate/80 tph sand	2012			Existing (unchanged)New/AdditionalTo Be Modified	☐ To be Removed ☐ Replacement Unit ☐ To be Replaced		
APTR4	Asphalt Plant Conveyor 2 transfer into Pugmill	Gencor				340 tph aggregate/80 tph sand	2012			Existing (unchanged)New/AdditionalTo Be Modified			
APTR5	Asphalt Plant Transfer to Conveyor 3	Gencor		V3070SC- 159858-08 NA		340 tph aggregate/80 tph sand	2012						
APTR6	Asphalt Plant Transfer to Conveyor 4	Бепсог		V3070SC- 159858-08 NA		340 tph aggregate/80 tph sand	2012						
APTR7	Asphalt Plant RAP cold Feed bin	Gencor				40 tph	2012				·		
APTR8	Asphalt Plant RAP Transfer to Conveyor 5	Gепсог				40 tph	2012						
APTR9	Asphalt Plant RAP Transfer to Conveyor 6	бепсог				40 tph	2012						
APTR10	Asphalt Plant Slat Transfer to Conveyor 7	r Astec				400 tph	2012						
APTR11	Asphalt Plant Storage Silos Filling (3)	B Astec				400 tph	2012			Existing (unchanged) New/Additional To Be Modified	☐ 10 be Removed ☐ Replacement Unit ☐ To be Replaced		

10 POW
Make Model# Serlal# Capacity* (Spedfy (Spedfy Units)
N/A N/A N/A N/A
Gencor
V 100
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5
Gencor
151BH- 159858-08 NA
shop made
Gencor Hy-Way RA3146
Asphalt Plant Versabind/Lime Silo & shop made dust collector (APDC1)
300UDS- Gencor 159858-08 NA
300PCS- 159858-08 NA
Gencor EQUINOX or ULTRA II
1916-01- BCT-30V
30CTS- 1552-08
30CTS- 1553-08

Revision # 0

				Manufact- urer's Rated	Requested Permitted	Date of Manufacture ²	Controlled by Unit #	Source Classi-			RICE ignition Type	200
Source Description	Make	Model #	Serial #	Capacity ³ (Specify Units)	Capacity ³ (Specify Units)	Date of Construction/ Reconstruction ²	Emissions vented to Stack#	flcation Code (SCC)	For Each Plece of Equipment, Check One	pment, Check One	(CI, SI, 4SLB, 2SLB) ⁴	replacing Unit No.
Wash plant Under	-					2025			Existing (unchanged)	To be Removed Replacement Unit		
Screen Aggedry Iwin Dewatering Washer	Superior Industries	84								☐ To be Replaced		
Wash PlantAggredry	-					2025			Existing (unchanged)	To be Removed Replacement Unit		
Dewatering wasner Under Auger	Superior Industries	30							To Be Modified	☐ To be Replaced		
Wash Plant Wet	-	5162				2025			Existing (unchanged)	To be Removed Renlacement Unit		
Screen	Superior Industries	Screen							To Be Modified	To be Replaced		
-		30" × 100"				2025			Existing (unchanged)	To be Removed Replacement Unit		
Wash Plant Stacker 1	Superior industries	Radial					Or Carlo		To Be Modified	☐ To be Replaced		
-	-	30"×80'				2025			Existing (unchanged)	To be Removed Replacement Unit		
wash Plant Stacker 2	Superior industries	Portable Radial							To Be Modified	☐ To be Replaced		
		30" × 80'				2025			Existing (unchanged)	To be Removed		
Wash Plant Stacker 3	Superior Industries	Portable Radial								To be Replaced		
Wash Plant Jumper		30" x 60'				2025			Existing (unchanged)	☐ To be Removed		
Conveyor	Superior industries	dmnf							To Be Modified	To be Replaced		
Wash Plant Auger		24" x 18'				2025				☐ To be Removed		
Wash Rock	Superior Industries	Single Coarse Washer							To Be Modified	To be Replaced		

Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

² Specify dates required to determine regulatory applicability.

³ To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

^{4.4}SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Revision # 0

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant control device regardless if the applicant takes credit for the reduction in emissions.

Argelit Appliate Plant Rightonce Stack 2009 PM, PM to PM t	Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s) ¹	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
Acphale Plant Versabind/Line Silo dust collector 2009 PM, PM 10, PM 25 Versabind/Line Silo 99.9 Acphale Plant Versabind/Line Silo dust collector 2009 PM, PM 10, PM 25 Versabind/Line Silo 99.9 Acphale Plant Versabind/Line Silo dust collector Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo 99.9 Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo 99.9 Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acphale Plant Versabind/Line Silo Acp	APBH1	Asphalt Plant Baghouse Stack	2009	PM, PM ₁₀ , PM _{2.5}	Drum Mixer (DM), Primary Collector (PC), Drier Burner (DB)	99.9 PM 99.6 PM ₁₀	AP-42
	APDC1	Asphalt Plant Versabind/Lime Silo dust collector	2009	PM, PM10, PM2.5	Versabind/Lime Silo	6.66	design
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Table 2-D: Maximum Emissions (under normal operating conditions)

 \Box This Table was intentionally left blank because it would be identical to Table 2-E.

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emissions to reach pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-1. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "" symbol. A "" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

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GCC Sun City Materials, LLC

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PM2.5 ¹	lb/hr 1	0.22	0.11	0.07	0.79	99.0	0.26	0.05	0.05	0.05	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.14	0.14	60.0	0.09	60.0	0.03	0.03	0.03	0.05	0.05
	ton/yr	6.31	3.15	2.10	22.86	19.08	7.62	1.45	1.45	1.45	1.45	08.0	08.0	08.0	08.0	0.80	08.0	0.32	0.32	0.32	0.32	0.32	0.32	0.64	0.64	06.0	06.0		09.0	09.0	0.20	0.20	0.20	1.45	1.45
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	Onit No.	CPCR1	CPCR2	CPCR3	CPSCRN1	CPSCRN2	CPSCRN3	CPTR1	CPTR2	CPTR3	CPTR4	CPTR5	CPTR6	CPTR7	CPTR8	CPTR9	CPTR10	CPTR11	CPTR12	CPTR13	CPTR14	CPTR15	CPTR16	CPTR17	CPTR18	CRSTK1	CRSTK2	CRSTK3	CRSTK4	CRSTK5	CRSTK6	CRSTK7	CRSTK8	WASHTR1	WASHTR2

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	Ž	NOX	Ō	8	VOC	SC	SOx	×	PM	η. 	PM101	101	PM2.5 ¹	2.5	H ₂ S	S	Lead	-
Unit No.	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SP9		•			.1			•	0.53	0.51	0.25	0.24	0.04	0.04		•		
SP10	10	Ť.	149	(00)	(*)	(0)	,	3	1.51	1.45	0.71	89.0	0.11	0.10	i			Ä
SP11	·		100				•	-	0.35	0.34	0.17	0.16	0.03	0.02				,
SP12	8	*	·	,:		30	10		0.38	0.37	0.18	0.17	0.03	0.03	T.	a.	i.	
SP13	•			201		•	•		0.26	0.01	0.12	0.002	0.02	0.0004		196		• 9
SP18		3.	(4	,	7	÷	*	1	0.26	0.01	0.12	0.002	0.02	0.0004	¥	*	ŧ	•
HR3	10	/ / /	23	3 8		٠			9.41	38.88	2.40	9.91	0.24	0.99	TV Sur		j	
HR4	0)		*		(4)				8.60	35.52	2.19	9.05	0.22	0.91	a.	0.	ij.	¥
HR5		-							2.02	5.88	0.51	1.50	0.05	0.15	•		(*	•
HR6	ì		3	,	Ŕ	ï	۱	v	6.29	25.99	1.60	6.62	0.16	99.0	-	æ	(0)	
HR7	•							•	0.56	0.03	0.14	0.01	0.01	0.001		V	,	
HR8	i	6	œ	inse	•	î.	a	39							×	i	ř	į
HR9				Sales Sales					3.19	60.0	0.81	0.02	0.08	0.002	•	٠	•	
HR10	,			i	•	*	¥	×							(0)	1	9	
HR11			,	3.00	•	1.00			63.91	269.30	16.29	68.63	1.63	98.9		17.		
HR12	4	я	37	Ą) <u>(</u>	- 7.	9								*	0	i	ĸ
HR13			(4)		•				0.81	0.05	0.21	0.01	0.02	0.001				1/4
Totals	10.65	10.17	53.76	47.76	113.38	18.48	1.36	1.20	11578.13	11578.13 10426.07	2726.25	2463.31	468.91	368.44	00.00	0.00	0.0004	0.0003
	l			Land Lines	a dissipa	from a	lined bear	Ore open	concident	and hard and and concidenced controlled emissions and were excluded from Table 2-D	lod omics	i bue and	Mora ave	unded from	Table 7	ç		

¹Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC). Note - HR8, HR10, and HR12 are paved haul roads; emissions from paved haul roads are considered controlled emissions and were excluded from Table 2-D.

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Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E⁴).

Unit No.	SOZ	3	دَ	3	ĭ	700	Š	×	PM	5	A A	PM10-	F	PM2.5	-	22	1	Lead
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
APBH1	10.40	9.10	52.00	45.50	12.80	11.20	1.36	1.19	13.20	11.55	9.20	8.05	1.39	1.22	K 2		0.0004	0.00031
APH1	0.25	1.07	0.21	06.0	0.01	90.0	0.001	0.01	0.02	0.08	0.02	0.08	0.02	0.08		T. A. L.		•
APDC1	ì	ŧ			W.	0)	4	ŭ,	0.10	0.0002	0.03	0.00007	0.03	0.00007	340	00	4	0
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APPMILL	9	(4)				i.		16	0.88	0.77	0:30	0.26	0.02	0.02	¥			300
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APSCRN2	,	ě		٠	i	٠	*	ž	60.0	0.002	0.03	0.001	0.007	0.00004	E	0	*11	
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APTR7	ě	ij.	×		ř	٠		*	0.01	0.0001	0.002	0.00003	0.001	0.00001	6		٠	į)
APTR8		and to the	•	monage		٠		•	0.01	0.0001	0.002	0.00003	0.001	0.00001	•	0.00		*
APTR9	8		£0.	κ.	Ē	Ţij.	i)		0.01	0.0001	0.002	0.00003	0.001	0.00001	1500	((4))	Ø # 13	(e)
APTR10	÷	*	0.54	0.47	1.66	1.46	ě		0.21	0.18	0.21	0.18	0.21	0.18				*
APTR11	•	JØ,	0.47	0.41	4.87	4.27		56	0.23	0.21	0.23	0.21	0.23	0.21	19	39	1/0	(i)
APTR12	*		0.54	0.47	1.66	1.46			0.21	0.18	0.21	0.18	0.21	0.18	•			
APTR13	4	3	94	×	31	8	**	15	0.27	0.001	0.15	0.0003	0.15	0.0003	*	×	,	1

GCC Sun City Materials, LLC

Ź	Š	S	8	×	VOC	S	SOx	PM		PIN	PM10 ¹	PIV	PM2.51	Ī	H ₂ S	a	Lead
lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
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٦	00	Λος)C	SOx	×	P	PM ¹	E	PM10 ¹	E E	PM2.5 ¹	Ī	H ₂ S	Le	Lead
\vdash	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
	2410	ji,	•			0.32	0:30	0.15	0.14	0.05	0.02	34			2
		è	£	,	ki.	06.0	0.87	0.43	0.41	90.0	90.0	60		0.	92
			,			0.21	0.20	0.10	0.10	0.05	0.01		F 18		
_	. 1	r.	•	(1)		0.23	0.22	0.11	0.10	0.02	0.02	9	19	181	
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-		9		3		0.16	0.003	0.07	0.001	0.01	0.0002		3*	3.0	ě
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\vdash		Ť			8	0.20	0.59	0.04	0.12	0.01	0.03	96	₹		*
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-	47.76	113.38	18.48	1.36	1.20	44.46	91.83	20.03	31.23	3.66	4.91	Æ	N.	0.0004	0.0003

Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)

emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) 크 This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)¹, including NOI applications, must include in this table the emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications

O VOC SOX PM² PM10² PM2.5² H ₂ S H ₂ S	Ž	Š	ر	o,	Š	7	טר	Υ.	ī	-	Z	OT	PIVI.	2.5		22	2	read
JIII NO.	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
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				27	100						DESC OF							

For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPV, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

Printed 12/20/2024 9:39 AM Table 2-A: Page 1 Form Revision: 5/3/2016

Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20,2.74 NMAC) and Title V (20,2.70 NMAC).

Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-1. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the "-"

	Serving Unit	ž	NOx	3	03	200	ာ့	SC	SOx	PM	5	PR	PM10	PM	PM2.5	□ H ₂ S or□	☐ Lead
Stack No.	Number(s) from Table 2-A	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
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	Totals																

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Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

	ă	3.67	1.11	1.15	10.94												
Velocity	(ft/sec)	223.41	67.86	37.50												The same of	
Moisture by	Volume (%)		Diversity of		15 10 15		700				THE STATE						
Flow Rate	(dscfs)						31114										
Flow	(acfs)	2363	99	39	9570						F. W. Calif.		STATE OF THE STATE				
Temp.	(F)	156	609	ambient	CONTRACTOR OF THE PARTY OF THE		or the sum									PART THE REAL PROPERTY.	
Height Above	Ground (ft)	43	10	39						Sales and Sales					:04		
Rain Caps	(Yes or No)	No	No	No		;					(6-1- Mr) and	26.5 4 5 5 1					
Orientation (H	Horizontal V=Vertical)	۸	۸	^				9F - 10		270						We make the second	
Serving Unit Number(s) from	Table 2-A	Drum Mixer (DM), Primary Collector (PC), Drier Burner (DB)	Asphalt Plant Hot Oil Heater (APH1)	Versabind/Lime Silo (APDC1)	The state of the s							では、直に あること					
Stack	Number	APBH1	APH1	APDC1										10		Section Assessment	

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Table 2-1: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No. Unit No.(s) Iotal HAPS Name Here TAP HAP ord TAP TAP HAP ord TAP TAP Ib/hr ton/yr Ib/hr ton/yr Ib/hr ton/yr Ib/hr ton/yr Ib/hr ton/yr Ib/hr Ib/hr ton/yr Ib/hr I	HAP or TAP	HAP or TAP	HAD ON TAB			_[
Ib/hr ton/yr Ib/hr Ib/hr ton/yr Ib/hr ton/yr Ib/hr ton/yr Ib/hr ton/yr Ib/hr Ib/hr	直		ı	☐ HAP or☐ TAP	☐ HAP or☐ TAP	☐ HAP or☐ TAP	☐ HAP or☐ TAP
APH1 0.005 APH1 0.005		lb/hr ton/yr	lb/hr ton/yr	lb/hr ton/yr	lb/hr ton/yr	lb/hr ton/yr	lb/hr ton/yr
APH1 0.005							
	Section 1						
				No.		x or the state of	
		THE RESERVE					
		z – jo knodni		100			
Totals: 2.12 1.87							

Printed 12/20/2024 9:39 AM Table 2-A: Page 1 Form Revision: 5/3/2016 Application Date: December, 2024

Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

		Fuel Source: purchased commercial,		Specif	Specify Units		
Unit No.	Fuel Type (low sulfur Diese, ultra low sulfur diesel, Natural Gas, Coal,)	pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
APH1	Natural Gas	Pipeline Quality Natural Gas	1020 MMBtu/MMscf	2.5 MMBtu/hr	21,900 MMBtu/year		
APBH1	Natural Gas	Pipeline Quality Natural Gas	1020 MMBtu/MMscf	150 MMBtu/hr	328,125 MMBtu/yr		
						N SA N	
						EESA:	

Printed 1/2/2025 10:10 AM

Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

						Average Storage Conditions	age Conditions	Max Storae	Max Storage Conditions
Tank No.	epo Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
APTK1	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.1	325.33	~0.11
APTK2	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.11	325.33	~0.11
APTK3	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.11	325.33	~0.11
		The Particular Section of the Particular Sec	The second secon				300 300		
					18.8	N To The State of		W. Ic	
							TOTAL NOTES		
		ASSESSED FOR THE STATE OF THE PARTY.					The State of		
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		12 5 5 5 1 5 5 5 5		12.5				Section 8	
			THE RESIDENCE OF THE PARTY OF T						

Revision # 0

Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date	Materials Stored	Seal Type (refer to Table 2-	Seal Type Roof Type (refer to Table 2.	Capacity	ıcity	Diameter (M)	Vapor Space (M)	Color (from Table ¹	VI-C)	Paint Condition (from Table VI-	Annual Throughput	Turn- overs
			LR below)	LK below)	(ldd)	(M³)			Roof	Shell	()	(gal/yr)	(per year)
APTK1	2014	Asphalt cement		FX: Fixed Roof	609		3.3528	9609'0	LG: Light gray	LG: Light gray	Good	210,000	8.21
APTK2	2012	Asphalt cement		FX: Fixed Roof	559	TO THE STATE	3.3528	0.6096	LG: Light gray	LG: Light gray LG: Light gray	Good	210,000	8.95
APTK3	2012	Asphalt cement		FX: Fixed Roof	559		3.3528	0.6096	LG: Light gray	LG: Light gray	Good	210,000	8.95
												10 H 10 H	0.0
				S Post Control								- Saltsnerwich	
							618						
			10.00				1000						dosess rail
											25		
	S = 30			The state of					0.0			115	
			No. of Street,				us insorting		0			IN THE REAL PROPERTY.	
Water Park	00 N N N N N N N N N N N N N N N N N N		100	A Secondary	THE SHIP			- N	1 X	100000			
				1000									
												No. of the	10

Table 2-P: Greenhouse Gas Emissions

Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box. By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

				•					•							
		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr²									Mass Basis ton/yr ⁴	iotal CO ₂ e ton/yr ⁵
Unit No.	. GWPs 1	1	298	25	22,800	footnote 3										
	-	mass GHG 12588.011	23.122725 238.16407	238.16407	10/10/2000		Name of Persons	feed on the	The second second		District Constitution	A CONTRACTOR OF THE PARTY OF TH			12849.2983 25432.685	25432.685
APBHI	_			Spirite .		The same				I Derett to	of 5 orant				The second	
1	mass GHG	1280.91	2.3528839 24.234704	24.234704											1307.49759	2587.937
APH1	CO ₂ e															
	mass GHG	7.0														
	CO2e			100					100	- CTOHETTO			2016			
	mass GHG															
	CO ₂ e															
0.1804	mass GHG						100 × 000									
	CO ₂ e						T									
	mass GHG															
	CO ₂ e															
733	mass GHG			1								7. E				
	CO ₂ e					87										
	mass GHG															
	CO ₂ e															
	mass GHG	1000000	A												1346	THE REAL PROPERTY.
	CO ₂ e		yl.		H. W.		UCS COLUMN									
	mass GHG															
	CO ₂ e															
	mass GHG						10 P		81							7
	CO ₂ e					5		10 M = 01			100					
	mass GHG															
	CO ₂ e															
	mass GHG							14			7					
	CO ₂ e						Management of the last of the				Total March		7		U.	
	mass GHG															
	CO ₂ e															
THE PERSON NAMED IN	mass GHG	Farm -		1 11 2 1					1 (2)				2	THE STATE OF THE S		
	C02e				TO TO THE											
Total	티	13868.921	25.475609	262.39877											14156.80	78070.977
	00.00		i,													

GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

² For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

³ For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

⁴ Green house gas emissions on a mass basis is the ton per year green house gas emission before adjustment with its GWP...

²CO₂e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Application Details Form UA3

Section 3

Application Summary

The <u>Application Summary</u> shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The <u>Process Summary</u> shall include a brief description of the facility and its processes.

<u>Startup, Shutdown, and Maintenance (SSM)</u> routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Application Summary

EnSafe Inc., on behalf of GCC Sun City Materials, LLC, (GCC), is submitting the enclosed minor source construction permit application under 20.2.72.200.A to modify operations at the Vado Site at 10795 Las Alturas Drive, Mesquite, Dona Ana County, New Mexico (Site). GCC produces asphalt and crushed rock at the Vado Site.

The current Site permits are as follows:

- One recycled asphalt product (RAP)/rock crusher (GCP-2-4384) plant
- One hot mix asphalt plant (GCP-3-4449); and,
- Two rock crushing lines (minor source permit numbers 2112-M1 and 942- M1-R1)

Note that concrete batch plant with permit number 0943-R1 will be decommissioned.

The proposed changes at the Site include:

- Replacement of equipment and reconfiguration of the crushing operations currently authorized by permits 2112-M1 and 942-M1-R1
- Ability for all Site operations to operate on a 24-hours per day, 7-days per week, 52 weeks a year, operating schedule
- Addition of a sand and rock wash plant
- Decommissioning of the existing concrete batch plant.

Upon issuance of the new permit, the current permits will be voided. Proposed emissions include particulate matter (PM), PM with an equivalent aerodynamic diameter of 10 microns or less (PM₁₀), PM with an equivalent aerodynamic diameter of 2.5 microns or less (PM_{2.5}), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), and volatile organic compounds (VOCs).

Process Summary

The Asphalt Plant consists of aggregate/sand and recycled asphalt Pavement (RAP) cold feed bins, conveyors, pugmill, screens, drum mixer, crusher, silos, and mix truck loading operations.

Crushing operations at the crushing plant will be performed by three crushers and associated screens, tunnel belts, conveyors, and stackers. The wash plant in the crushing plant operations area will include a feed hopper and a feed conveyor to be permitted. Additionally, the wash plant includes a screen, wash equipment and stackers that do not require permitting given that the material to be processed is wet.

A detailed process description is provided in Section 10.

Startup, Shutdown, and Maintenance (SSM)

Startup, Shutdown, and Maintenance (SSM) emissions are not considered a separate operation from normal operations.

UA3 Form Revision: July 12, 2023 Section3, Page2 Saved Date: 12/20/2024

Section 4

Process Flow Sheet

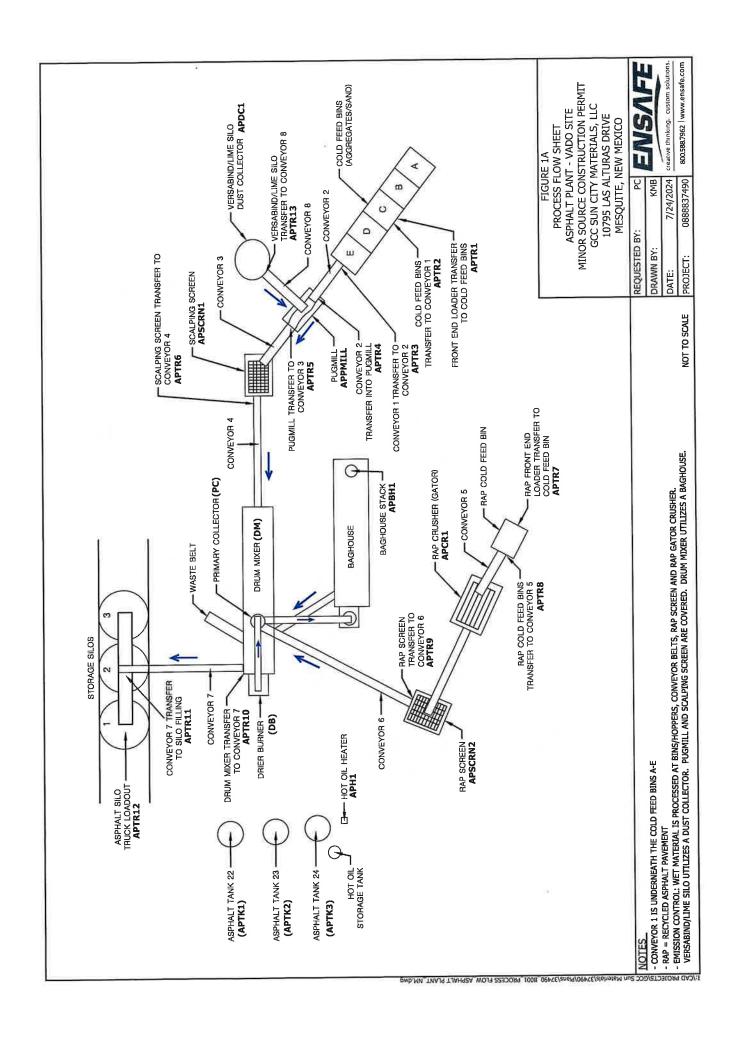
A <u>process flow sheet</u> and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

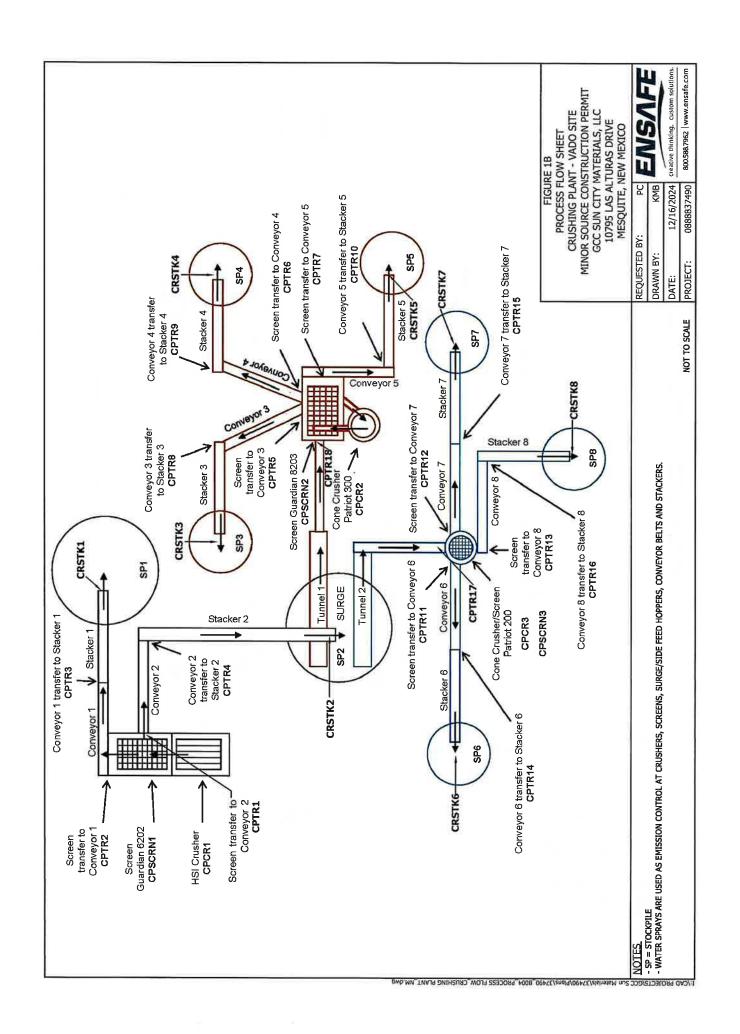
Process flow diagrams for the Asphalt/RAP Plant, Crushing Plant, and Wash Plant are provided in Figures 1A, 1B, and 1C, respectively, in the following pages.

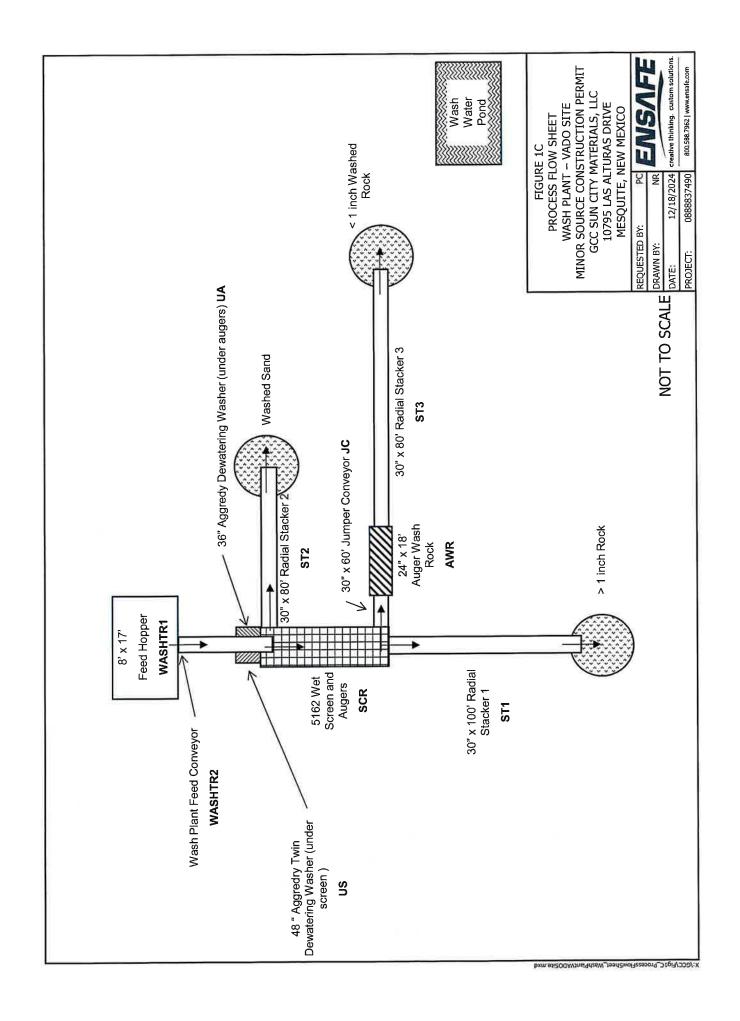
Form-Section 4 last revised: 8/15/2011

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Saved Date: 12/20/2024







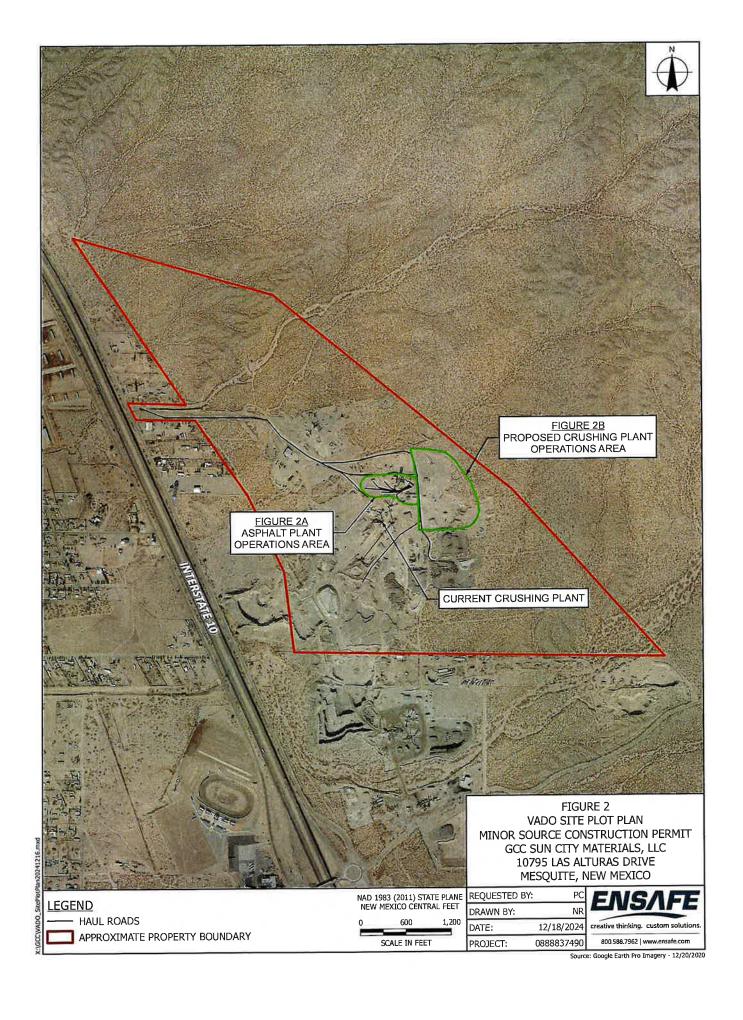
Section 5

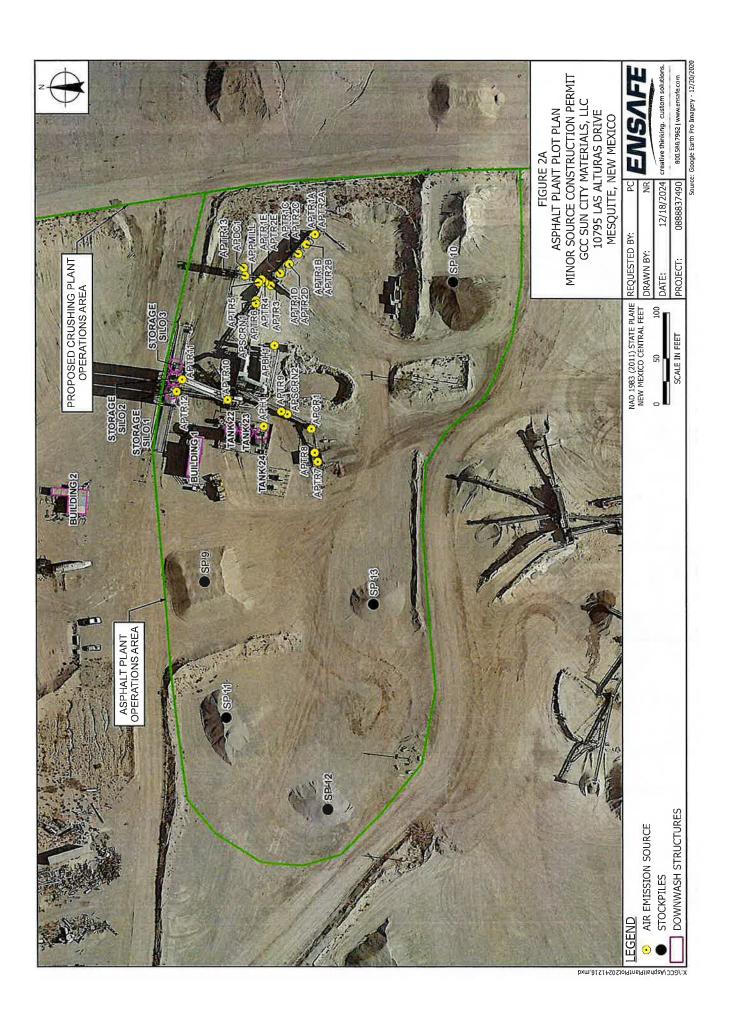
Plot Plan Drawn to Scale

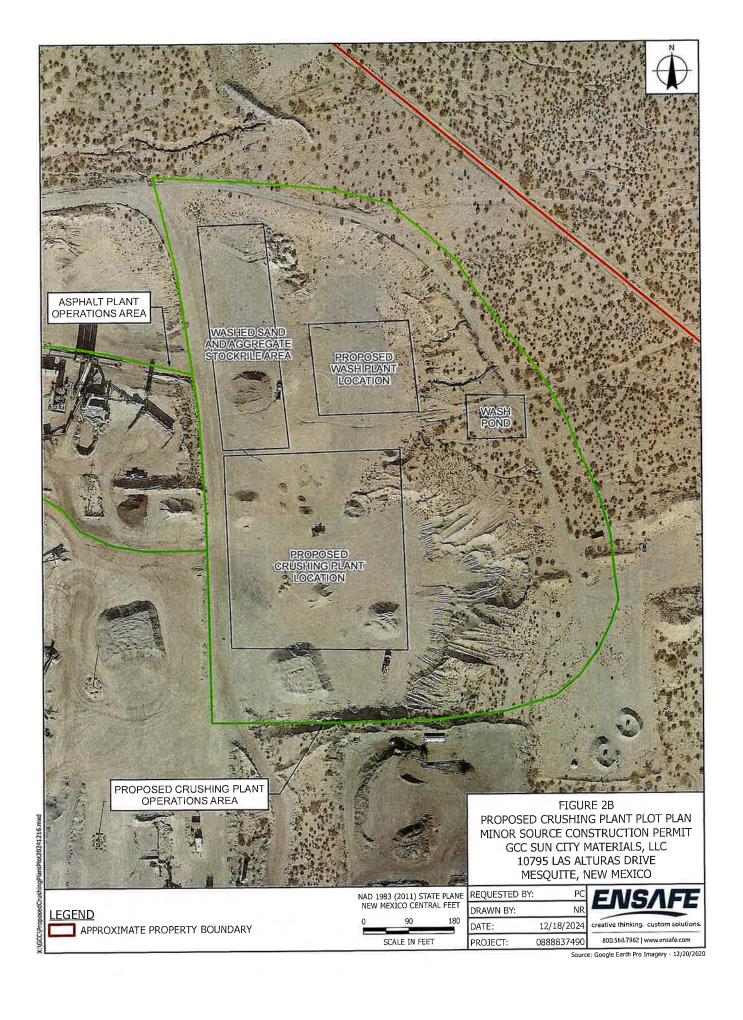
A <u>plot plan drawn to scale</u> showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

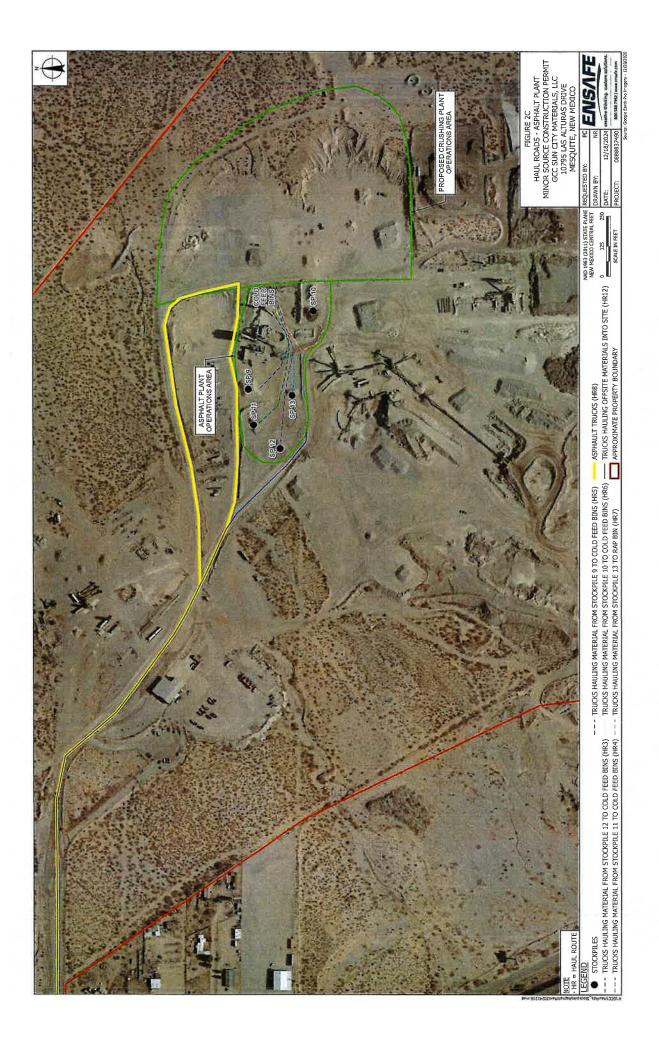
Plot plans for the entire site, Asphalt/RAP Plant, and Crushing Plant (including the Wash Plant) are provided in figures 2, 2A, and 2B, respectively, in the following pages. Also, plot plans for the haul roads are provided in figures 2C to 2E, in the following pages.

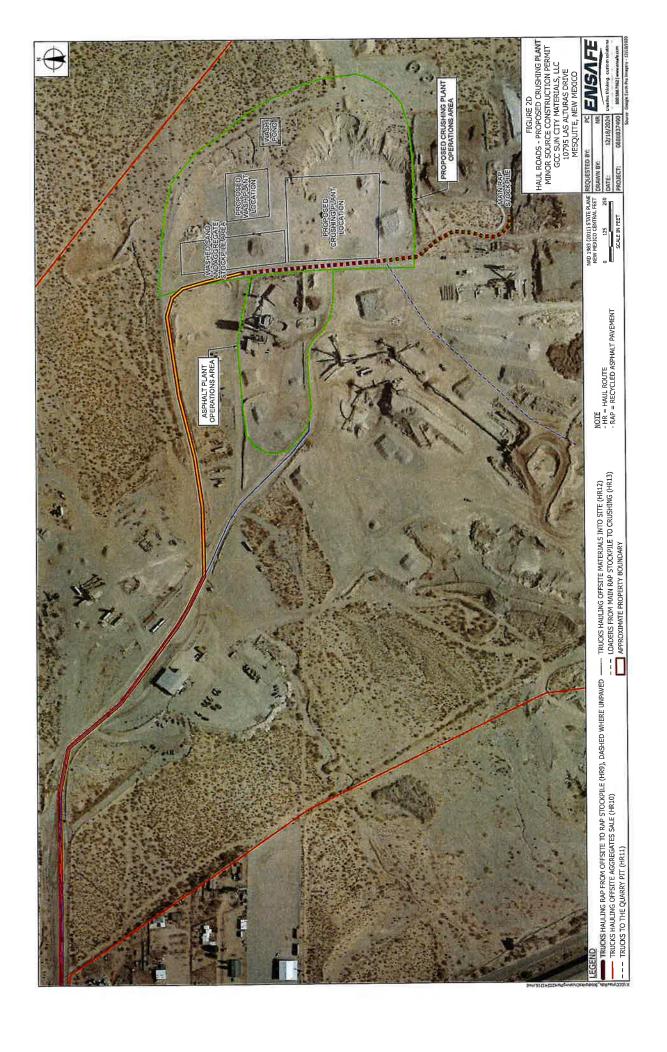
Form-Section 5 last revised: 8/15/2011 Section 5, Page 1 Saved Date: 12/20/2024

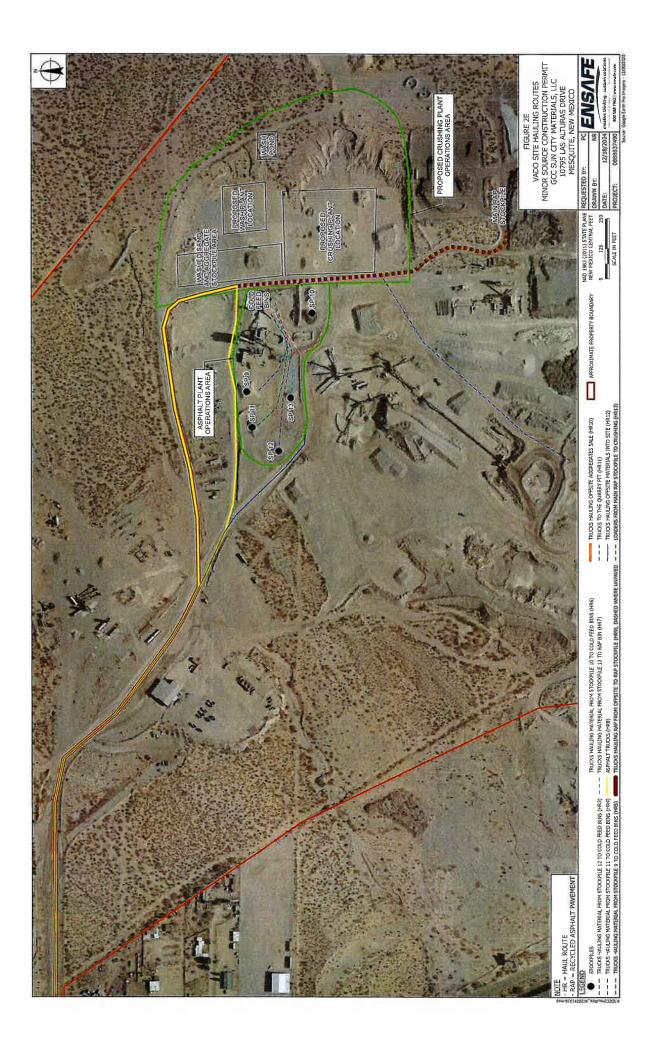












Section 6

All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

- 1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
- 2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:

A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

B. At least 5 significant figures shall be retained in all intermediate calculations.

C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; and
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

Form-Section 6 last revised: 5/3/16

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Saved Date: 12/20/2024

Saved Date: 12/20/2024

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

The calculations have been included in the entirety in the UA2 workbook. Print-outs from the calculations in the workbook are provided in the following pages.

Crushing Plant Calculations

GCC Sun City Materials, LLC - Vado Crushing Plant 2024 Controlled Emission Calculations

Plant Throughput	tph	tons per year
CPCR1	600	3505752
CPCR2	300	1752876
CPCR3	200	1168584
WASH PLT	300	700800

AP-42 Section 13.2,4 "Aggreg	ate Handling" (ver 11/2006)
E = k x (0.0032) x (U/5)^1.3 /	(M/2)^1.4 lbs/ton
k(tsp)	0.74
k(pm10)	0.35
k(pm2.5)	0.053
U Max Hour	11.0 Max MPH
U Annual Hour	3.4 Ave MPH
М	2.00 %

n	E(TSP) Max Hour =	0.00660 lbs/ton
	E(PM10) Max Hour =	0.00312 lbs/ton
	E(PM2.5) Max Hour =	0.00047 lbs/ton
	E(TSP) Annual Hour =	0.00145 lbs/ton
	E(PM10) Annual Hour =	0.00068 lbs/ton
J	E(PM2.5) Annual Hour =	0.00010 lbs/ton

AP-42 Section 13.2.4 "	Aggregate Handling" (ver 11/2006)
E = k x (0.0032) x (U/5	^1.3 / (M/2)^1.4 lbs/ton
k(tsp)	0.74
k(pm10)	0.35
k(pm2.5)	0.053
U Max Hour	11.0 Max MPH
U Annual Hour	3.4 Ave MPH
м	2.88 Table 11.19.2-2 Note b: High Controlled Moisture

ŀ		
	E(TSP) Max Hour =	0.00396 lbs/ton
	E(PM10) Max Hour =	0.00187 lbs/ton
	E(PM2.5) Max Hour =	0.00028 lbs/ton
	E(TSP) Annual Hour =	0.00087 lbs/ton
	E(PM10) Annual Hour =	0.00041 lbs/ton
	E(PM2.5) Annual Hour =	0.00006 lbs/ton

Controlled Emission				
<u>Factors</u>	TSP	<u>PM10</u>	PM2.5	<u>AP-42</u>
				Table 11.19.2-2 "Tertiary
Crusher	0.00120 lbs/ton	0.00054 lbs/ton	0.00010 lbs/ton	Crushing Controlled" Table 11.19.2-2 "Screening
Screen	0.00220 lbs/ton	0.00074 lbs/ton	0.00005 lbs/ton	Controlled" Table 11.19.2-2 "Conveyor
Controlled Conveyor	0.00014 lbs/ton	0.000046 lbs/ton	0.000013 lbs/ton	Transfer Point Controlled"
I				Section 13.2.4 "Aggregate
Stacker Max Hour	0.00396 lbs/ton	0.00187 lbs/ton	0.00028 lbs/ton	Handling" w=11.0
				Section 13,2.4 "Aggregate
Stacker Annual Hour	0.00087 lbs/ton	0.00041 lbs/ton	0.00006 lbs/ton	Handling" w=8.3

Crushing Plant Controlled Emissions

Process Unit #	Process Unit Description	% of Throughput	Process Rate	TSP	TSP	PM10	PM10	PM2.5	PM2.5
			tph	lbs/hr	ton/yr	lbs/hr	ton/yr	lbs/hr	ton/yr
CPCR1	CP HSI Crusher	100	600	0.72	2.10	0.32	0.95	0.06	0.18
	CP Cone Crusher Patriot								
CPCR2	300	100	300	0.36	1.05	0.16	0.47	0.03	0.09
GD 6 D 2	CP Cone Crusher Patriot								
CPCR3	200	100	200	0.24	0.70	0.11	0.32	0.02	0.06
CPSCRN1	CP Screen Guardian 6202	100	600	1.32	3.86	0.44	1.30	0.03	0.09
CPSCRN2	CP Screen Guardian 8203	100	501	1.10	3.86	0.37	1.30	0.03	0.09
CPSCRN3	CP Screen Patriot 200	100	200	0,44	1.29	0.15	0.43	0.01	0.03
	CP Screen Guardian 6202								
CPTR1	transfer to Conveyor 2	100	600	0.08	0.25	0.03	0.08	0.01	0.02
	CP Screen Guardian 6202	100	600	0.08	0.23	0.03	0.00	0.02	
CPTR2	transfer to Conveyor 1								
	CP Conveyor 1 transfer to								
CPTR3	Stacker 1	400	500	0.08	0.25	0.03	0.08	0.01	0.02
	CP Conveyor 2 transfer to	100	600	0.08	0.25	0.03	0.00	0.01	0.02
CPTR4	Stacker 2								
	CP Screen Guardian 8203								
CPTR5	transfer to Conveyor 3				i iii				
	CP Screen Guardian 8203		504	0.07	0.25	0.02	0.08	0.01	0.02
CPTR6	transfer to Conveyor 4	100	501	0.07	0.25	0,02	0.00	0.01	0.02
	CP Screen Guardian 8203								
CPTR7	transfer to Conveyor 5								
	CP Conveyor 3 transfer to							7	
CPTR8	Stacker 3		J. I						0.02
	CP Conveyor 4 transfer to					0.00	0.08	0.01	
CPTR9	Stacker 4	100	501	0.07	0.25	0.02	0.08	0.01	
	CP Conveyor 5 transfer to	1					1		
CPTR10	Stacker 5								
	CP Screen Patriot 200						 		
CPTR11	transfer to Conveyor 6								
	CP Screen Patriot 200							0.003	0.01
CPTR12	transfer to Conveyor 7	100	200	0.03	0.08	0.01	0.03		
	CP Screen Patriot 200								
CPTR13	transfer to Conveyor 8								
	CP Conveyor 6 transfer to								
CPTR14	Stacker 6			200 0.03	0.03 0.08	0.01		1 0	
	CP Conveyor 7 transfer to	ł	100 200				0.03	0.003	0.01
CPTR15		100							
	Stacker 7	1						1	
CPTR16	CP Conveyor 8 transfer to								
	Stacker 8 Tunnel Conveyor Transfer								
CPTR17	to Crusher 3 Feed Conveyor	100	200	0.03	0.08	0.01	0.03	0.003	0.01
	Tunnel Conveyor Transfer	100	200	0.00	-				
CPTR18	to Screen 2 Feed Conveyor	100	201	0.03	0.08	0.01	0.03	0.003	0.01
	CP Stacker 1 Transfer into	100	201	0.05	0.00				
CRSTK1	Stockpile 1	1							
	CP Stacker 2 Transfer into	100	600	2.38	1.52	1.12	0.72	0,17	0.11
CRSTK2	Stockpile 2								
	CP Stacker 3 Transfer into								
CRSTK3	Stockpile 3							1	l .
	CP Stacker 4 Transfer into	-							
CRSTK4	Stockpile 4	100	600	2.38	1.52	1.12	0.72	0.17	0.11
		-						1	
CRSTK5	CP Stacker 5 Transfer into					1			
	Stockpile 5						_		_
CRSTK6	CP Stacker 6 Transfer into	1							
	Stockpile 6	4							
CRSTK7	CP Stacker 7 Transfer into	100	200	0.79	1.52	0.37	0.72	0.06	0,04
	Stockpile 7	4				l	1	1	
CRSTK8	CP Stacker 8 Transfer into					I		1	
CHOING	Stockpile 8						-	_	
WASHTR1	WP Transfer to Wash Plant				0.00		0.00	0.004	0.009
AA WOLLINT	Feed Hopper	100	300	0.04	0.05	0.01	0.02	0.004	0,003
	WP Transfer from Feed								I
WASHTR2	Hopper to Wash Plant Feed			I		l		0.004	
	Conveyor	100	300	0.04	0.05	0.01	0.02	0.004	0.009

 Total PM Crushing Equipment (tons/yr)
 10
 19
 4
 7
 1
 1

TSP Total	18.82	tons/yr
PM10 Total	7.38	tons/yr
PM2.5 Total	0.91	tons/yr

GCC Sun City Materials, LLC - Vado Crushing Plant 2024 Uncontrolled Emission Calculations

Crushing Plant	
Throughput	600 tph
Wash Plant	
Throughput	300 tph
Uncontrolled Hours	
Operation	8760 hours/yr

AP-42 Section 13.2.4 "Aggregate Handling" (ver 11/2006)				
E = k x (0.0032) x (U/5)^1.3 / (M/2)^1,4 lbs/ton			
k(tsp)	0.74			
k(pm10)	0.35			
k(pm2,5)	0.053			
U Maximum	11.0 Max MPH			
U Annual	3.4 Ave MPH			
М	2.00 %			

E(TSP) Max Hour =	0.00660 lbs/ton
E(PM10) Max Hour =	0.00312 lbs/ton
E(PM2.5) Max Hour =	0.00047 lbs/ton
E(TSP) Annual Hour =	0.00145 lbs/ton
E(PM10) Annual Hour =	0.00068 lbs/ton
E(PM2.5) Annual Hour =	0.00010 lbs/ton

Uncontrolled Emission Factors	TSP	PM10	PM2.5	AP-42
				Table 11.19.2-2
				"Tertiary Crushing
Crusher	0.00540 lbs/ton	0.00240 lbs/ton	0.00036 lbs/ton	Uncontrolled"
				Table 11.19.2-2
				"Screening
Screen	0.02500 lbs/ton	0.00870 lbs/ton	0.00132 lbs/ton	Uncontrolled"
				Table 11.19.2-2
				"Conveyor Transfer
Uncontrolled Conveyor	0.00300 lbs/ton	0.00110 lbs/ton	0.00017 lbs/ton	Point Uncontrolled"
				Section 13.2.4
				"Aggregate Handling"
Stacker Max Hour	0.00660 lbs/ton	0.00312 lbs/ton	0.000473 lbs/ton	w=8.3 MPH;M=2%
				"Aggregate Handling"
Stacker Annual Hour	0.00145 lbs/ton	0.00068 lbs/ton	0.00010 lbs/ton	w=8.3 MPH;M=2%

Crushing	Plant	Uncontro	lled	Emissions
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CPCR1 CP HSI Crusher CPCR2 300 CPCR3 CP Cone Crusher Patria 300 CPSCRN1 CP Screen Guardian 62 CPSCRN2 CP Screen Guardian 83 CPSCRN3 CP Screen Guardian 84 CP Screen Guardian 84 CP Screen Guardian 84 CP Screen Guardian 85 CP Screen Guardian 86 CP COnveyor 1 transfer to Conveyor 1 CP Conveyor 1 transfer to Conveyor 1 CP Screen Guardian 86 CPTR4 CP Screen Guardian 86 CPTR5 CP Screen Guardian 86 CPTR6 CP Screen Guardian 86 CPTR7 CP Screen Guardian 86 CPTR7 CP Screen Guardian 86 CPTR8 CP Conveyor 3 transfer to Conveyor 5 CP COnveyor 3 transfer 5 CPTR9 CP Conveyor 3 transfer 5 CPTR9 CP Conveyor 5 transfer 5 Stacker 3 CP Conveyor 4 transfer 5 Stacker 5 CPTR10 CP Screen Patriot 200 transfer to Conveyor 1 CP COnveyor 6 transfer 5 Stacker 6 CP Conveyor 7 transfer 5 Stacker 7 CP COnveyor 7 transfer 5 Stacker 8 Tunnel Conveyor Transfer 5 Stacker 8 Tunnel Conveyor Transfer 5 Stacker 8 CP COnveyor 7 transfer 5 Stacker 8 CP Stacker 1 Transfer 5 Stockpile 1 CP Stacker 2 Transfer 5 Stockpile 3 CP Stacker 3 Transfer 5 Stockpile 4 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK6 CP Stacker 7 Transfer 5 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 5 CP Stacker 7 Transfer 5 CP Stacker 8 Transfer 5 CP Stacker 9 Transfer	8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760	100 100 100 100 100 100 100 100 100 100	tph 600 300 200 600 501 200 600	1.62 1.08 15.00 12.51 5.00 1.80	ton/yr 14.19 7.10 4.73 65.70 54.81 21,90 7.88	0.72 0.48 5.22 4.36 1.74 0.66	ton/yr 6.31 3.15 2.10 22.86 19.08 7.62 2.89	0.11 0.07 0.79 0.56 0.26	0.94 0.33 3.44 2.85 1.11
CPCR2 CP Cone Crusher Patria 300 CPSCRN1 CP Screen Guardian 6: CPSCRN2 CP Screen Guardian 6: CPSCRN3 CP Screen Guardian 6: CPTR1 transfer to Conveyor 1 CPTR2 transfer to Conveyor 1 CPTR3 CP Conveyor 1 transfer to Conveyor 6: CPTR4 Stacker 1 CPTR4 CP Conveyor 2 transfer 5: Stacker 1 CPTR5 CP Screen Guardian 8: Transfer to Conveyor 6: CPS Screen Guardian 8: Transfer to Conveyor 6: CPTR6 CP Screen Guardian 8: Transfer to Conveyor 7: CPTR7 CP Screen Guardian 8: Transfer to Conveyor 6: CPTR8 Stacker 3 CPTR9 Stacker 3 CPTR9 Stacker 3 CPCOnveyor 3 transfer 5: Stacker 4 CPTR10 CP Conveyor 5 transfer 5: Stacker 5 CPTR11 CP Screen Patriot 200 Transfer to Conveyor 6: CP Screen Patriot 200 Transfer to Conveyor 7: CPTR12 CP Screen Patriot 200 Transfer to Conveyor 8: CPTR14 Stacker 6 CPTR15 Stacker 7 CPTR16 CP Conveyor 6 transfer 5: Stacker 8 Tunnel Conveyor 8: Transfer 5: Tockpile 1 CPSTacker 1 Transfer 5: Stacker 8 CPTR17 CP Stacker 3 Transfer 5: Stockpile 3 CP Stacker 4 Transfer 5: CRSTK4 CP Stacker 5 Transfer 5: Stockpile 4 CRSTK5 CP Stacker 6 Transfer 5: CRSTK6 CP Stacker 7 Transfer 5: CRSTK6 CP Stacker 6 Transfer 5: CRSTK7 CP Stacker 7 Transfer 5: CRSTK6 CP Stacker 6 Transfer 5: CRSTK7 CP Stacker 7 Transfer 5: CRSTK7 CP Stacker 7 Transfer 5: CRSTK6 CP Stacker 6 Transfer 5: CRSTK7 CP Stacker 7 Transfer 5: CRSTK6 CP Stacker 6 Transfer 5: CRSTK7 CP Stacker 7 Transfer 5: CRSTK6 CP Stacker 7 Transfer 5: CRSTK7 CP Stacker 8 Transfer 5: CRSTK7 CP Stacker 8 Transfer 5: CRSTK8 TSTACKPILE 7 CP Stacker 8 Transfer 5: CRSTK7 CP Stacker 8 Transfer 5: CRSTK7 CP Stacker 8 Transfer 5: CRSTK7 CP Stacker 8 Transfer 5: CP Stacker 8 Transfer 5: CP Sta	t 8760 t 8760 02 8760 03 8760 002 8760 002 8760 002 8760 002 8760 003 8760 003 8760 003 8760 003 8760	100 100 100 100 100 100 100 100	300 200 600 501 200 600	1.62 1,08 15.00 12.51 5,00	7.10 4.73 65.70 54.81 21,90 7.88	0,72 0.48 5.22 4.36 1.74 0,66	3.15 2.10 22.86 19.08 7.62 2.89	0.11 0.07 0.79 0.66 0.26	0.4 0.3 3.4 2.8 1.1
CPCR2 300 CPCR3 CP Cone Crusher Patric 200 CPSCRN1 CP Screen Guardian 6: CPSCRN2 CP Screen Guardian 8: CPSCRN3 CP Screen Guardian 8: CPSCRN3 CP Screen Guardian 6: CPSCRN3 CP CP Conveyor 1 transfer to Conveyor 1 CPTR1 CP Conveyor 1 transfer Stacker 1 CPTR3 CP Conveyor 2 transfer Stacker 2 CPTR4 CP Screen Guardian 8: CPTR5 CP Screen Guardian 8: CPTR6 transfer to Conveyor 4 CP Screen Guardian 8: CPTR6 transfer to Conveyor 4 CP Screen Guardian 8: CPTR7 CP Screen Guardian 8: CPTR7 transfer to Conveyor 4 CP Screen Guardian 8: CPTR7 CP Screen Guardian 8: CPTR8 CP CONVEYOR 3 transfer to Conveyor 4 CP Screen Guardian 8: CPTR9 Stacker 3 CP CONVEYOR 3 transfer to CONVEYOR 6 CP CONVEYOR 5 transfer 5 Stacker 5 CP CONVEYOR 5 transfer 5 Stacker 5 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CPTR12 CP Conveyor 6 transfer 5 Stacker 7 CPTR14 CP Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor Transfer 5 Stacker 8 Tunnel Conveyor Transfer 5 Stacker 8 Tunnel Conveyor 8 CP Stacker 1 Transfer 5 CRSTK1 Stockpile 1 CP Stacker 1 Transfer 5 CRSTK2 CP Stacker 3 Transfer 5 CRSTK4 CP Stacker 4 Transfer 5 CRSTK5 Stockpile 3 CP Stacker 6 Transfer 5 CRSTK6 CP Stacker 6 Transfer 5 CRSTK6 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 6 Transfer 5 CRSTK7 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 6 Transfer 5 CRSTK7 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 7 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK7 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK7 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK7	8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760 8760	100 100 100 100 100	200 600 501 200	1,08 15,00 12,51 5,00	4.73 65.70 54.81 21,90 7.88	0.48 5.22 4.36 1.74	2.10 22.86 19.08 7.62 2.89	0.07 0.79 0.66 0.26	0.3 3.4 2.8 1.1
CPCR3 CP Cone Crusher Patrix 200 CPSCRN1 CP Screen Guardian 6: CPSCRN3 CP Screen Guardian 6: CPTR1 transfer to Conveyor 1 CPTR3 CP Conveyor 1 transfer Stacker 1 CPTR4 CPTR4 CP Conveyor 2 transfer Stacker 2 CPSTR5 CPSCReen Guardian 8: transfer to Conveyor 3 CPSCREEN Guardian 8: transfer to Conveyor 6 CPSCREEN Guardian 8: transfer to Conveyor 7 CPSCREEN Guardian 8: transfer to Conveyor 8 CPTR1 CPTR7 CPTR7 CPTR8 CPC CP Conveyor 3 transfer Stacker 3 CPTR9 CPC CPNeyor 3 transfer Stacker 3 CPTR9 CPC CPNeyor 3 transfer Stacker 4 CPTR10 CP COnveyor 3 transfer Stacker 5 CPTR11 CP CPC CP COnveyor 6 transfer Stacker 5 CPTR12 CP Screen Patriot 200 transfer to Conveyor 6 CPTR12 CP Screen Patriot 200 transfer to Conveyor 6 CPTR14 CPTR15 CP CP COnveyor 6 transfer Stacker 7 CPTR16 CPTR16 CPTR17 CPTR17 CPTR18 Tunnel Conveyor 8 transfer Stacker 8 Tunnel Conveyor 1 transfer CPTR17 CPTR18 CP COnveyor 8 transfer Stacker 8 Tunnel Conveyor 1 transfer CPTR17 CPTR18 CP Stacker 1 Transfer Stacker 8 CP Stacker 1 Transfer Stockpile 1 CRSTK2 CP Stacker 2 Transfer Stockpile 3 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 6 Transfer Stockpile 7 CP Stacker 7 Transfer	8760 022 8760 033 8760 022 8760 02 8760 04 8760 05 8760 06 8760 07 8760 08 8760 08 8760 08 8760 08 8760	100 100 100 100 100	200 600 501 200	1,08 15,00 12,51 5,00	4.73 65.70 54.81 21,90 7.88	0.48 5.22 4.36 1.74	2.10 22.86 19.08 7.62 2.89	0.07 0.79 0.66 0.26	0.3 3.4 2.8 1.1
CPCRN1 CP Screen Guardian 6: CPSCRN2 CP Screen Guardian 7: CPSCRN3 CP Screen Patriot 200 CPSCRN3 CP Screen Patriot 200 CPTR1 transfer to Conveyor 1 CPTR2 CP Conveyor 1 transfer to Conveyor 2 CPTR3 CP Conveyor 2 transfer Stacker 1 CPTR4 CP Conveyor 2 transfer Stacker 1 CPTR5 CP Conveyor 2 transfer to Conveyor 3 CPTR6 CP Screen Guardian 8: transfer to Conveyor 3 CPTR7 CP Screen Guardian 8: transfer to Conveyor 4 CP Screen Guardian 8: transfer to Conveyor 5 CP Conveyor 3 transfer to Conveyor 6 CP COnveyor 4 transfer to Conveyor 6 CP COnveyor 5 transfer to Conveyor 6 CP CP COnveyor 6 transfer to Conveyor 7 CP CP COnveyor 7 transfer to Conveyor 6 CP CP COnveyor 7 transfer to CONVEYOR 6 CPTR10 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CPTR12 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CPTR14 CP Conveyor 6 transfer 5 Stacker 7 CPTR15 CP Conveyor 7 transfer 5 Stacker 8 Tunnel Conveyor 7 transfer 5 Stacker 8 Tunnel Conveyor 7 CPTR16 CP Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor 7 CPTR17 to Crusher 3 Feed Conveyor 7 CPTR18 To Crusher 3 Feed Conveyor 9 CPTR19 CP Stacker 1 Transfer 5 Stockpile 1 CP Stacker 2 Transfer 5 Stockpile 3 CP Stacker 5 Transfer 5 Stockpile 3 CP Stacker 6 CP Stacker 7 Transfer 5 Stockpile 5 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK7 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CP Stacker 8 Transfe	8760 8760 8760 8760 8760 8760 02 8760 03 8760 03 8760 03 8760 03 8760	100 100 100 100	600 501 200 600	15.00 12.51 5.00	65.70 54.81 21,90 7,88	5.22 4.36 1.74 0.66	22.86 19.08 7.62 2.89	0.79 0.56 0.26 0,10	3.4 2.8 1.1
CPSCRN1 CP Screen Guardian 67 CPSCRN2 CP Screen Guardian 67 CPSCRN2 CP Screen Guardian 67 CPSCRN3 CP Screen Guardian 67 CPSCRN3 CP Screen Guardian 67 CPSCRN4 CP Screen Guardian 67 CPTR2 transfer to Conveyor 1 CP Conveyor 1 transfer to Conveyor 1 CP Conveyor 1 transfer to Conveyor 1 CP Conveyor 2 transfer Stacker 1 CPTR4 CP Screen Guardian 88 CPTR5 CP Screen Guardian 88 CPTR6 transfer to Conveyor 3 CP Screen Guardian 88 CPTR7 transfer to Conveyor 4 CP Screen Guardian 88 CPTR7 transfer to Conveyor 5 CP Conveyor 3 transfer to Conveyor 6 CP COnveyor 4 transfer 5 Stacker 3 CPTR9 CP Conveyor 5 transfer 5 Stacker 4 CPTR10 Screen Patriot 200 CPTR11 transfer to Conveyor 6 CP Screen Patriot 200 CPTR12 CP Screen Patriot 200 CPTR14 CP Screen Patriot 200 CPTR15 Stacker 6 CPTR16 CP Conveyor 6 transfer to Conveyor 7 CPTR17 transfer to Conveyor 7 CPTR18 Stacker 8 Tunnel Conveyor 7 transfer Stacker 8 Tunnel Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor 8 transfer 5 Stacker 8 CPTR16 CP Screen Patriot 200 CPTR17 to Crusher 3 Feed Conveyor 7 CPTR18 Stacker 8 Tunnel Conveyor Transfer Stacker 8 CPTR17 CP Conveyor 8 transfer 5 Stacker 8 CPTR18 CP Stacker 1 Transfer 5 Stockpile 1 CRSTK2 CP Stacker 3 Transfer 5 Stockpile 4 CRSTK5 CP Stacker 5 Transfer 5 Stockpile 6 CRSTK6 CP Stacker 8 Transfer 5 CP S	022 8760 033 8760 8760 022 8760 02 8760 04 8760 05 8760 06 8760 07 8760 08 8760 08 8760 08 8760	100 100 100 100	600 501 200 600	15.00 12.51 5.00 1.80	65.70 54.81 21,90 7,88	5.22 4.36 1.74 0.66	22.86 19.08 7.62 2.89	0.56 0.26 0.10	0.4
CPSCRN2 CP Screen Guardian 8: CPSCRN3 CP Screen Guardian 8: CPSCRN3 CP Screen Guardian 6: CPSCREEN Guardian 8: CPTR4 CP Conveyor 2 transfer Stacker 1 CPTR5 CP Screen Guardian 8: CPTR6 CP Screen Guardian 8: CPTR6 CP Screen Guardian 8: CPTR7 CP Screen Guardian 8: CPTR8 CP Conveyor 4: CP Screen Guardian 8: CPTR9 CP CONVEYOR 3: CPTR9 CP CONVEYOR 3: CPTR9 CP CONVEYOR 4: CPTR10 CP CONVEYOR 4: CPTR10 CP CONVEYOR 5: CPTR11 CP CONVEYOR 5: CPTR11 CP Screen Patriot 200 CPTR12 CP Screen Patriot 200 CPTR13 CP Screen Patriot 200 CPTR14 CP CONVEYOR 6: CPTR15 Stacker 6 CPTR16 CP CONVEYOR 6: CPTR16 CP CONVEYOR 7: CPTR17 CP CONVEYOR 7: CPTR18 CP CONVEYOR 6: CPTR19 CP CONVEYOR 7: CPTR10 CP CONVEYOR 6: CPTR11 CP CONVEYOR 6: CPTR12 CP CONVEYOR 6: CPTR14 CP CONVEYOR 6: CPTR15 CONVEYOR 7: CPTR16 CP CONVEYOR 7: CPTR17 CP CONVEYOR 7: CPTR18 CP CONVEYOR 7: CPTR19 CP CONVEYOR 7: CPTR19 CP CONVEYOR 7: CPTR19 CP Stacker 7: CPTR19 CP Stacker 1: CRSTK1 CP Stacker 1: CRSTK2 CP Stacker 3: CRSTK3 CP Stacker 5: CP Stacker 5: CRSTK5 CNOCKIBLE 4: CP Stacker 6: CRSTK5 CNOCKIBLE 7: CP Stacker 6: CP Stacker 7: CP Stacker 7: CP Stacker 7: CP Stacker 6: CRSTK5 CP Stacker 7: CP Stacker 8: CRSTK6 CP Stacker 8: CRSTK7 CP Stacker 8: CRSTK6 CP Stacker 7: CP Stacker 7: CP Stacker 7: CP Stacker 8: CRSTK6 CP Stacker 8: CRSTK6 CP Stacker 8: CRSTK7 CP Stacker 8: CRSTK6 CP Stacker 8: CRSTK7 CP Stacker 8: CP Stacker 8: CRSTK9 CP Sta	03 8760 8760 02 8760 02 8760 04 8760 10 8760 03 8760 03 8760	100 100 100	501 200 600	12.51 5.00 1.80	\$4.81 21,90 7.88	0.66	19.08 7.62 2.89	0.26	0.4
CPSCRN3 CP Screen Patriot 200 CPScreen Guardian 6. CPTR1 CPTR2 CPTR3 CP Conveyor 1 transfer to Conveyor 2 CPTR3 CP Conveyor 1 transfer to Conveyor 3 CP Conveyor 2 transfer 5 Stacker 1 CP Conveyor 2 transfer 5 CPTR5 CPTR5 CPScreen Guardian 8. transfer to Conveyor 3 CPScreen Guardian 8. transfer to Conveyor 4 CP Screen Guardian 8. transfer to Conveyor 6 CP Conveyor 3 transfer 5 Stacker 3 CPTR9 CP Conveyor 4 transfer 5 Stacker 3 CPTR9 CP Conveyor 4 transfer 5 Stacker 4 CP Conveyor 5 transfer 5 CPTR10 CPTR11 CPScreen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CPTR12 CPTR13 CPTR14 CP Conveyor 6 transfer 5 Stacker 7 CP Conveyor 7 transfer 5 Stacker 6 CP Conveyor 7 transfer 5 Stacker 7 CPTR16 CP Conveyor 8 transfer 5 Stacker 7 CPTR17 CPTR18 CPTR19 CPStacker 1 Transfer 5 Stockpile 1 CP Stacker 2 Transfer 5 Stockpile 2 CP Stacker 5 Transfer 5 Stockpile 4 CRSTK5 CP Stacker 6 Transfer 5 CRSTK6 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 7 Transfer 5 Stockpile 6 CP Stacker 8 Transfer 5 CP Stacker 7 Transfer 5 Stockpile 6 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 5 Stockpile 6 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CP Sta	8760 02 8760 04 8760 05 8760 07 8760 08 8760 08 8760 08 8760	100	600	1.80	7,88	0,66	2.89	0,10	0.4
CPTR1 CPTR2 CPTR3 CPTR4 CPTR4 CPTR4 CPTR4 CPCOnveyor 1 transfer to Conveyor 2 CPCOnveyor 1 transfer to Conveyor 3 CPCOnveyor 1 transfer to Conveyor 3 CPCOnveyor 1 transfer to Conveyor 1 CPCOnveyor 2 transfer to Conveyor 3 CPTR5 CPTR5 CPTR6 CPTR6 CPTR6 CPTR7 CPTR7 CPTR7 CPTR7 CPTR7 CPTR7 CPTR8 CPCOnveyor 3 transfer to Conveyor 3 CPCOnveyor 3 transfer to Conveyor 3 CPCOnveyor 3 transfer to Conveyor 4 CPCOnveyor 3 transfer 5 CPTR9 CPCOnveyor 4 transfer 5 Stacker 3 CPCOnveyor 5 transfer 5 Stacker 3 CPTR10 CPTR10 CPTR10 CPTR11 CPTR11 CPTR11 CPTR12 CPTR12 CPTR12 CPTR12 CPTR13 CPCOnveyor 6 transfer to Conveyor 1 CPCOnveyor 6 transfer to Conveyor 1 CPCOnveyor 7 transfer 5 Stacker 6 CPCOnveyor 8 transfer 5 Stacker 7 CPTR16 CPTR17 CPTR18 CPTR18 CPTR19	8760 8760 to 8760 to 8760 03 8760 03 8760 03 8760	100							_
CPTR2 CP Screen Guardian 6. CPTR3 CP Conveyor 1 transfer to Conveyor 1 CP Conveyor 2 transfer Stacker 1 CP Conveyor 2 transfer Stacker 1 CP Conveyor 2 transfer Stacker 2 CP Screen Guardian 8. transfer to Conveyor 3 CP Screen Guardian 8. transfer to Conveyor 4 CP Screen Guardian 8. transfer to Conveyor 5 CP Conveyor 3 transfer to Conveyor 6 CP Conveyor 4 transfer 5 Stacker 3 CPTR9 CP Conveyor 4 transfer 5 Stacker 3 CPTR10 CP Conveyor 5 transfer 5 CPTR10 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CP Screen Patriot 200 transfer to Conveyor 8 CP COnveyor 6 transfer 5 Stacker 6 CP Conveyor 7 transfer 5 Stacker 7 CPTR16 CP Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor 7 CPTR18 Tunnel Conveyor 7 CPTR19 CP Conveyor 8 transfer 5 Stacker 8 CPTR19 CP COnveyor 8 transfer 5 Stacker 8 CPTR19 CP Stacker 1 Transfer 5 Stockpile 1 CP Stacker 2 Transfer 5 Stockpile 3 CP Stacker 4 Transfer 5 Stockpile 3 CP Stacker 5 Transfer 5 Stockpile 6 CRSTK5 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK6 CP Stacker 8 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 5 Stockpile 6 CP Stacker 8 Transfer 5 CP Stacker 8 Transfer 7 CP CP Stacker 8 Transfe	8760 to 8760 to 8760 03 8760 03 8760 03 8760	100							_
CPTR2 transfer to Conveyor 1 CPTR3 CP Conveyor 1 transfer Stacker 1 CP Conveyor 2 transfer Stacker 2 CP Streen Guardian 8. transfer to Conveyor 3 CP Screen Guardian 8. transfer to Conveyor 5 CP COnveyor 3 transfer Stacker 3 CP COnveyor 4 transfer Stacker 4 CP Conveyor 5 transfer Stacker 5 CP Screen Patriot 200 CP Scacker 3 CP Scacker 7 CP Conveyor 6 transfer Stacker 8 Tunnel Conveyor 8 transfer Stacker 8 Tunnel Conveyor 8 transfer CP COnveyor 8 transfer Stacker 8 Tunnel Conveyor Transfer Stacker 9 CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 3 CP Stacker 3 Transfer Stockpile 4 CRSTKS CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer	8760 to 8760 03 8760 03 8760 03 8760	100			7.88	0.66	2,89	0.10	0.
CPTR3 CP Conveyor 1 transfe Stacker 1 CPTR4 CP Conveyor 2 transfe Stacker 2 CP Conveyor 2 transfe Stacker 2 CP Screen Guardian 8: transfer to Conveyor 3 CP Screen Guardian 8: transfer to Conveyor 4 CP Screen Guardian 8: transfer to Conveyor 4 CP Screen Guardian 8: transfer to Conveyor 4 CP Conveyor 3 transfe Stacker 3 CPTR9 CP Conveyor 4 transfer Stacker 4 CP Conveyor 5 transfer Stacker 5 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Conveyor 6 transfer Stacker 6 CP Conveyor 7 transfer Stacker 7 CPTR15 CP Conveyor 7 transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 CPTR16 CP Stacker 2 Feed CP Stacker 1 Transfer Stockpile 1 CRSTK2 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 5 Transfer Stockpile 4 CRSTK5 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 6 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 8	8760 8760 8760 03 8760 03 8760		600	1.80	7.88	0.66	2,89	0.10	0.4
CPTR3 Stacker 1 CP Conveyor 2 transfer Stacker 2 CP Screen Guardian 8: transfer to Conveyor 4 CP Conveyor 3 transfer Stacker 3 CPTR9 CP Conveyor 4 transfer Stacker 4 CP Conveyor 5 transfer Stacker 5 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 9 CPTR12 CP Screen Patriot 200 transfer to Conveyor 9 CPTR13 CP Conveyor 6 transfer Stacker 6 CP Conveyor 7 transfer Stacker 7 CP Conveyor 8 transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 9 CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 3 CP Stacker 5 Transfer Stockpile 3 CP Stacker 6 Transfer Stockpile 4 CRSTK5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer	8760 8760 03 8760 03 8760		600	1.80	7.88	0.66	2,89	0.10	0.4
CPTR4 CP Conveyor 2 transfer Stacker 2 CPTR5 CP Screen Guardian 8: transfer to Conveyor 3 CPTR6 CP Screen Guardian 8: transfer to Conveyor 3 CP Screen Guardian 8: transfer to Conveyor 3 CP Screen Guardian 8: transfer to Conveyor 3 CP Conveyor 3 transfer to Conveyor 4 CP Conveyor 3 transfer 5 tacker 3 CPTR9 CP Conveyor 4 transfer 5 tacker 3 CP COnveyor 5 transfer 5 tacker 4 CP Conveyor 5 transfer 5 tacker 5 CPTR10 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 10 CPTR12 CP Conveyor 6 transfer 5 tacker 6 CP Conveyor 7 transfer 5 tacker 7 CPTR16 CP Conveyor 7 transfer 5 tacker 8 Tunnel Conveyor 8 transfer 5 tacker 8 Tunnel Conveyor 8 transfer 5 tacker 8 Tunnel Conveyor 8 transfer 5 tacker 8 CPTR17 CPTR18 CPTR18 CPTR19 CP Stacker 1 Transfer 5 tockpile 1 CP Stacker 2 Transfer 5 tockpile 2 CP Stacker 3 Transfer 5 tockpile 4 CRSTK4 CRSTK5 CP Stacker 6 Transfer 5 tockpile 6 CRSTK6 CRSTK6 CP Stacker 7 Transfer 5 tockpile 6 CRSTK7 CP Stacker 8 Transfer 5 tockpile 6 CRSTK7 CP Stacker 8 Transfer 5 tockpile 6 CRSTK7 CP Stacker 8 Transfer 5 tockpile 7 CP Stacker 8 Transfer 5 tockpile 8 CRSTK9 CP Stacker 8 Transfer 5 tockpile 7 CP Stacker 8 Transfer 5 tockpile 8 CP Stacker 8 Transfer 5 tockpile 7 CP Stacker 8 Transfer 5 tockpile 8 CP Stacker 8 Transfer 5 tockpile 9	8760 8760 8760 8760 8760 8760		600	1.80	7.00	0.66	2,03		٠.
CPTR5 CPTR6 CP Screen Guardian 8: transfer to Conveyor 3 CPTR6 CP Screen Guardian 8: transfer to Conveyor 4 CP Screen Guardian 8: transfer to Conveyor 5 CP Conveyor 3 transfer to Conveyor 5 CP Conveyor 4 transfer to Conveyor 6 CP Conveyor 4 transfer to Conveyor 7 CPTR9 CP Conveyor 5 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 1 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Conveyor 6 transfer to Conveyor 1 CP Conveyor 6 transfer to Conveyor 6 CP Conveyor 7 transfer to Conveyor 7 CP Conveyor 8 transfer to Conveyor 8 Tunnel Conveyor 7 CPTR16 CP Conveyor 8 transfer to Conveyor 1 CPTR17 CPTR18 CPTR19 CP Stacker 1 CP Stacker 1 CP Stacker 1 CP Stacker 1 CP Stacker 2 Transfer to Conveyor 8 CP Stacker 3 Transfer to CRSTK3 CP Stacker 5 Transfer to CRSTK5 CP Stacker 6 CP Stacker 7 Transfer to CRSTK6 CP Stacker 8 CP Stacker 8 CP Stacker 6 CP Stacker 7 Transfer to CRSTK6 CP Stacker 8 Transf	8760 8760 8760 8760	100						0.10	1
CPTR5 transfer to Conveyor 3 CPTR6 transfer to Conveyor 4 CP Screen Guardian 8 transfer to Conveyor 5 CP Conveyor 3 transfer to Conveyor 5 CP Conveyor 3 transfer 5 CPTR8 Stacker 3 CP Conveyor 4 transfer 5 Stacker 3 CPTR9 Stacker 4 CP Conveyor 5 transfer 5 CPTR10 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CP Screen Patriot 200 transfer to Conveyor 9 CP Screen Patriot 200 transfer to Conveyor 1 CP Conveyor 6 transfer 5 Stacker 6 CP Conveyor 7 transfer 5 Stacker 7 CPTR16 CP Conveyor 8 transfer 5 Stacker 7 CPTR17 to Crusher 3 Feed Conveyor 8 CPTR18 to Crusher 3 Feed Conveyor 7 CPTR18 to Crusher 3 Feed Conveyor 8 CP Stacker 1 Transfer 5 Stockpile 1 CRSTK1 CP Stacker 2 Transfer 5 Stockpile 3 CP Stacker 4 Transfer 5 Stockpile 4 CRSTK5 CRSTK6 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CRSTK6 CP Stacker 8 Transfer 5 CP Stack	8760 8760 8760	100							_
CPTR6 CPTR18 CPTR7 CPTR18 CPTR7 CPTR18 CPTR8 CPTR7 CPTR18 CPTR8 CPTR7 CPTR18 CPTR9 CPTR19 CPTR9 CPTR19 CPTR9 CPTR19 CPTR10 CPTR10 CPTR10 CPTR11 CPTR19 CPTR10 CPTR11 CPTR19 CPTR10 CPTR19 CPTR19 CPTR19 CPTR19 CPTR19 CPTR19 CPTR19 CR5TK1 CPTR19 CR5TK2 CPTR19 CR5TK3 CPTR19 CPTR16 CPTR19 CR5TK3 CPTR19 CR5TK4 CPTR19 CR5TK6 CPTR19 CPTR16 CPTR19 CR5TK6 CPTR19 CPTR16 CPTR19 CR5TK6 CPTR19 CPTR19 CR5TK6 CPTR19 CPTR19 CR5TK6 CPTR19 CPTR1	8760 8760	100	l I						1
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CPTR1	03 8760		501	1,50	6.58	0.55	2,41	0.08	0.
CPTR7 transfer to Conveyor 5 CP Conveyor 3 transfer Stacker 3 CP Conveyor 4 transfer Stacker 4 CP Conveyor 5 transfer Stacker 5 CP CP Conveyor 5 transfer Stacker 5 CP CP Conveyor 5 transfer Stacker 5 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 CPTR12 transfer to Conveyor 6 CP Conveyor 6 transfer to Conveyor 7 CP Stacker 6 CPTR14 Stacker 6 CPTR15 Stacker 7 CP Conveyor 7 transfer Stacker 7 CP Conveyor 8 transfer Stacker 8 Tunnel Conveyor 7 transfer Stacker 8 CPTR16 CP Conveyor 8 transfer Stacker 8 CPTR17 to Crusher 3 Feed Conveyor CPTR18 Tunnel Conveyor Transfer Stacker 8 CPSTK1 CP Stacker 1 Transfer Stockpile 1 CP Stacker 1 Transfer Stockpile 2 CP Stacker 3 Transfer Stockpile 4 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer	8760								1
CPTR8 Stacker 3 CPTR9 Stacker 3 CP Conveyor 3 transfer Stacker 4 CPTR10 CP Conveyor 5 transfer Stacker 5 CP Streen Patriot 200 transfer to Conveyor 6 transfer to Conveyor 6 transfer to Conveyor 7 transfer to Conveyor 7 transfer to Conveyor 8 transfer to Conveyor 9 transfer to Conveyor 1 transfer to Conveyor 8 transfer 5 tacker 6 CPTR15 CP Conveyor 6 transfer 5 tacker 7 CPTR16 Stacker 8 Tunnel Conveyor 7 transfer 5 tacker 8 Tunnel Conveyor Transfer 5 tacker 8 CPTR17 CPTR18 CP Conveyor 8 transfer 5 tacker 8 CPTR19 CP Stacker 1 Transfer Stacker 1 Transfer 5 to Screen 2 Feed CP 5 tacker 1 Transfer 5 tockpile 1 CRSTK2 CP Stacker 1 Transfer 5 tockpile 3 CRSTK4 CP Stacker 3 Transfer 5 tockpile 4 CRSTK5 CP Stacker 6 Transfer 5 tockpile 6 CRSTK6 CP Stacker 7 Transfer 5 tockpile 6 CRSTK7 CP Stacker 8 Transfer 5 tockpile 7 CP Stacker 8 Transfer 5 tockpile 8			1						_
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CPTR10 CP Conveyor 5 transfer Stacker 5 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CP Screen Patriot 200 transfer to Conveyor 9 CP Screen Patriot 200 transfer to Conveyor 9 CP Screen Patriot 200 transfer to Conveyor 6 CP Screen Patriot 200 CP Screen Patriot 200 CP Screen Patriot 200 transfer to Conveyor 6 transfer Stacker 6 CP Conveyor 6 transfer Stacker 7 CP Conveyor 7 transfer Stacker 8 Tunnel Conveyor 7 transfer CP Stacker 3 Fransfer Stacker 8 Tunnel Conveyor Transfer Screen 2 Feed CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 2 CP Stacker 3 Transfer Stockpile 3 CP Stacker 4 Transfer Stockpile 4 CP Stacker 5 Transfer Stockpile 6 CP Stacker 6 Transfer Stockpile 6 CRSTK6 Stockpile 6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 Stockpile 7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 8 CP Stacker 8 Transfer Stockpile 9 CP Stacker 8 Transfer Sto		100	501	1,50	6.58	0.55	2,41	0.08	0.
CPTR10 Stacker 5 CP Screen Patriot 200 CPTR11 transfer to Conveyor 6 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 transfer to Conveyor 8 CP Screen Patriot 200 transfer to Conveyor 7 CP Screen Patriot 200 CP Screen Patriot 200 CP COnveyor 6 transfer 5 Stacker 6 CP Conveyor 6 transfer 5 Stacker 7 CPTR15 Stacker 7 CP Conveyor 7 transfer 5 Stacker 8 Tunnel Conveyor 8 transfer 5 Stacker 8 Tunnel Conveyor Transfer 5 CCPSTK1 Screen 2 Feed Conveyor Transfer 5 Stockpile 1 CP Stacker 1 Transfer 5 Stockpile 2 CP Stacker 3 Transfer 5 Stockpile 3 CRSTK4 Stockpile 4 CRSTK5 CP Stacker 4 Transfer 5 Stockpile 6 CRSTK6 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 6 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 6 CRSTK7 CP Stacker 8 Transfer 5 Stockpile 7 CP Stacker 8 Transfer 5 CP St	8760			30					1
CPTR11 CP Screen Patriot 200 transfer to Conveyor of CP Screen Patriot 200 transfer to Conveyor CP Screen Patriot 200 transfer to Conveyor CP Stacker 6 CPTR14 CP Conveyor 6 transfer Stacker 7 CP Conveyor 7 transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 CPTR17 CPTR18 CP Stacker 1 Transfer Stockpile 1 CRSTK1 CP Stacker 1 Transfer Stockpile 2 CRSTK2 CP Stacker 3 Transfer Stockpile 3 CP Stacker 4 Transfer Stockpile 4 CRSTK4 CP Stacker 4 Transfer Stockpile 5 CP Stacker 5 Transfer Stockpile 6 CRSTK5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CRSTK9 CP Stacker 8 Transfer Stockpile 6 CRSTK7 CRSTK9 CP Stacker 8 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 8	8760								1
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CPTR12 CP Screen Patriot 200 transfer to Conveyor 1 CP Screen Patriot 200 transfer to Conveyor 2 CP Conveyor 6 transfer Stacker 6 CP Conveyor 7 transfer Stacker 7 CPTR16 CP Conveyor 8 transfer Stacker 8 Tunnel Conveyor 8 transfer CPTR17 to Crusher 3 Feed Conveyor Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 8 CPSTK1 CP Stacker 1 Transfer Stockpile 1 CPSTK2 CP Stacker 3 Transfer Stockpile 2 CP Stacker 4 Transfer Stockpile 3 CP Stacker 5 Transfer Stockpile 4 CRSTK5 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer									1
CPTR13 CP CONVEYOR Transfer CPTR14 CPTR15 CP Conveyor 8 transfer CPTR15 CP Conveyor 7 transfe Stacker 6 CP Conveyor 8 transfe Stacker 8 Tunnel Conveyor Transfe Stacker 8 Tunnel Conveyor Transfe Conveyor CPTR16 Tunnel Conveyor Transfer Conveyor CPTR17 CP Conveyor Transfer CONVEYOR CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 3 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 6 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 6 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer	_	400	200	0.60	2,63	0,22	0,96	0.03	l 0.
CPTR13 transfer to Conveyor 1 CPTR14 CP Conveyor 6 transfe Stacker 6 CP Conveyor 7 transfe Stacker 7 CP Conveyor 8 transfe Stacker 8 Tunnel Conveyor 8 transfe Stacker 8 Tunnel Conveyor Tran to Crusher 3 Feed Conveyor Tunnel Conveyor Tran to Screen 2 Feed CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 3 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 6 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 6 CP Stacker 8 Transfer	8760	100	200	0.60	2,03	0,22	0,50	0.03	"
CPTR14 CP Conveyor 6 transfer Stacker 6 CPTR15 CP Conveyor 7 transfer Stacker 7 CP Conveyor 8 transfer Stacker 7 CPTR16 CP Conveyor 8 transfer Stacker 8 Tunnel Conveyor Transfer CPTR17 to Crusher 3 Feed Conveyor CPTR18 CP Stacker 1 Transfer Stockpile 1 CRSTK1 CP Stacker 1 Transfer Stockpile 2 CRSTK2 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer CP STACKER C			10					1	1
CPTR14 Stacker 6 CPTR15 CP Conveyor 7 transfer Stacker 7 CP COnveyor 8 transfer Stacker 8 Tunnel Conveyor 8 transfer Stacker 8 Tunnel Conveyor Transfer Conveyor Transfer Stacker 8 Tunnel Conveyor Transfer Stacker 1 Transfer Stackpile 1 CRSTK1 CP Stacker 1 Transfer Stackpile 1 CRSTK2 CP Stacker 2 Transfer Stackpile 2 CRSTK3 CP Stacker 3 Transfer Stackpile 4 CRSTK4 CP Stacker 4 Transfer Stackpile 4 CRSTK5 CP Stacker 5 Transfer Stackpile 6 CRSTK6 CP Stacker 6 Transfer Stackpile 6 CRSTK7 CP Stacker 7 Transfer Stackpile 6 CRSTK7 CP Stacker 7 Transfer Stackpile 6 CRSTK7 CP Stacker 8 Transfer Stackpile 7 CRSTK8 CP Stacker 8 Transfer Stackpile 7 CRSTK9 CP Stacker 8 Transfer Stackpile 7 CRSTK9 CP Stacker 8 Transfer Stackpile 7 CP Stacker 8 Transfer Stackpile 7 CP Stacker 8 Transfer CP STACKER CP STACKER CP STACKER CP STACKER CP STACKER CP STACKER CP STACK									+
CPTR15 CP Conveyor 7 transfer Stacker 7 CPTR16 CP Conveyor 8 transfe Stacker 8 Tunnel Conveyor 8 transfe Stacker 8 Tunnel Conveyor Transfer Conveyor Transfer Stockpile 1 CP Stacker 1 Transfer Stockpile 2 CRSTK1 CP Stacker 1 Transfer Stockpile 3 CRSTK3 CP Stacker 3 Transfer Stockpile 8 CRSTK4 CP Stacker 4 Transfer Stockpile 8 CRSTK5 CP Stacker 6 Transfer Stockpile 9 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Tran									
CPTR15 Stacker 7 CPTR16 CP Conveyor 8 transfe Stacker 8 Tunnel Conveyor Transfe CONSENS TO CONSENS TENDE CPTR17 CONSENS TENDE CPTR18 TO CONSENS TENDE CPSTR18 CP Stacker 1 Transfer Stockpile 1 CPSTR2 CP Stacker 2 Transfer Stockpile 2 CPSTR3 CPSTR4 Transfer Stockpile 3 CRSTK4 CPSTR4 Transfer Stockpile 4 CRSTK5 CPSTR4 Transfer Stockpile 6 CRSTK6 CPSTR4 Transfer Stockpile 6 CPSTR5 CPSTR5 Transfer Stockpile 6 CPSTR6 CPSTR6 Transfer Stockpile 7 CPSTR6 CPSTR6 Transfer Stockpile 6 CRSTK7 CPSTR6 Transfer Stockpile 7 CPSTR6 CPSTR6 Transfer	8760	-							Ι.
CPTR16 CP Conveyor 8 transfe Stacker 8 Tunnel Conveyor Tran to Crusher 3 Feed Conveyor Tran to Crusher 3 Feed Conveyor Tran to Screen 2 Feed CRSTK1 CP Stacker 1 Transfer Stockpile 1 CRSTK2 CP Stacker 2 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CRSTK6 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK8 CRSTK9 CP Stacker 8 Transfer Stockpile 7 CRSTK9 CP Stacker 7 Transfer Stockpile 7 CRSTK9 CP Stacker 8 Transfer Stockpile 7 CRSTK9 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer CRSTK9 CP Stacker 8 Transfer CRSTK9 CP Stacker 8 Transfer CRSTK9 CP Stacker 8 Transfer CP STACKER CP	8760	100	200	0.60	2.63	0.22	0,96	0.03	0.
CPTR16 Stacker 8 Tunnel Conveyor Trar to Crusher 3 Feed Conveyor Tunnel Conveyor Trar to Screen 2 Feed CRSTK1 CP Stacker 1 Transfer Stockpile 1 CRSTK2 CP Stacker 2 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 Stockpile 4 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer		-							1
CPTR17 to Crusher 3 Feed Conveyor Tunnel Conveyor Trar to Screen 2 Feed CRSTK1 CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 2 CP Stacker 3 Transfer Stockpile 3 CP Stacker 4 Transfer Stockpile 4 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 6 CP Stacker 6 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer	8760								_
Conveyor Tunnel Conveyor Tran Tunnel Conveyor Tran Tunnel Conveyor Tran To Steen 2 Feed CRSTK1 CP Stacker 1 Transfer Stockpile 1 CRSTK2 CP Stacker 2 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 Stockpile 4 CRSTK4 CP Stacker 4 Transfer Stockpile 5 CRSTK5 CP Stacker 6 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer CRSTK7 CP Stacker 8 Transfer	iter								1
CPTR18 Tunnel Conveyor Trar to Screen 2 Feed CRSTK1 Stockpile 1 CRSTK2 CP Stacker 1 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 Stockpile 3 CRSTK4 Stockpile 4 CP Stacker 4 Transfer Stockpile 5 CRSTK5 CP Stacker 5 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 6 Transfer Stockpile 7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer		100	200	0.60	1.75	0,22	0.64	0.03	0,
CPTR18 to Screen 2 Feed CP Stacker 1 Transfer Stockpile 1 CP Stacker 2 Transfer Stockpile 2 CP Stacker 3 Transfer Stockpile 3 CP Stacker 3 Transfer Stockpile 3 CP Stacker 4 Transfer Stockpile 4 CRSTK4 CP Stacker 5 Transfer Stockpile 5 CP Stacker 5 Transfer Stockpile 5 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer CRSTK9 CP Stacker 8 Transfer	8760								+
CRSTK1 CP Stacker 1 Transfer Stockpile 1 CRSTK2 Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CRSTK6 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 7 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK8 CP Stacker 7 Transfer Stockpile 7 CRSTK9 CP Stacker 8 Transfer Stockpile 7 CRSTK9 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Transfer Stockpile 7	8760	100	201	0,60	1.75	0.22	0.64	0.03	0
CRSTK1 Stockpile 1 CRSTK2 CP Stacker 2 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK8 CP Stacker 8 Transfer Stockpile 7									
CRSTK2 CP Stacker 2 Transfer Stockpile 2 CRSTK3 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Transfer Stockpile 7	8760	100	600	3.96	3.80	1.87	1.80	0.28	0
CRSTK3 Stockpile 3 CRSTK4 CP Stacker 3 Transfer Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 Stockpile 5 CRSTK6 CP Stacker 5 Transfer Stockpile 6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK8 CP Stacker 8 Transfer Stockpile 7	nto	100	600	3.50	3.00	1.07	1.00	0.20	1 4
CRSTK3 Stockpile 3 CRSTK4 CP Stacker 4 Transfer Stockpile 4 CRSTK5 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK8 CP Stacker 8 Transfer Stockpile 7	8760								+
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CRSTKS CRSTK6 CP Stacker 5 Transfer Stockpile 5 CRSTK6 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CRSTK9 CP Stacker 8 Transfer Stockpile 5	8760	100	600	3.96	3,80	1.87	1.80	0.28	0
CRSTKS Stockpile 5 CRSTK6 CP Stacker 6 Transfer Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Transfer Stockpile 7									1
CRSTK6 CP Stacker 6 Transfer Stockpile 6 CP Stacker 7 Transfer Stockpile 7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer	8760								
CRSTK6 Stockpile 6 CRSTK7 CP Stacker 7 Transfer Stockpile 7 CP Stacker 8 Transfer CP Stacker 8 Transfer									
CRSTK7 Stockpile 7 CP Stacker 8 Transfer	8760								
CP Stacker 8 Transfer		100	200	1.32	1,27	0.62	0.60	0.09	0
	8760								1
Stockpile 8						I			
MD Teamforts West	8760								+-
WASHTR1 WP Transfer to Wash Plant Feed Hopper	8760	100	300	0.90	3.94	0.33	1.45	0.05	0
WP Transfer from Fee		100	1 300	0.50	3,57				T
WASHTR2 Hopper to Wash Plan									
Feed Conveyor	8760	100	300	0.90	3.94	0.33	1.45	0.05	0
	-	Total DM Counting	Equipment (tons/yr)	57	215	22	79	3	T.

| TSP Total | 214.98 | tons/yr | PM10 Total | 79.1 | tons/yr | PM2.5 Total | 12.0 | tons/yr |

Asphalt Plant Calculations

Baghouse Stack (APBH1)

Basis and Assumptions

Asphalt plant dryer fires natural gas

400 Hourly Production, tons/hr 700,000 Annual Production, tpy 8,760 Annual Hours of Operation, hr/yr

Emission Factors

28 PM emission factor (uncontrolled), lb/ton product (AP-42 Table 11.1-3)

0.033 PM emission factor (controlled), lb/ton product (AP-42 Table 11.1-3 - Fabric Filter)

6.5 PM₁₀ emission factor (uncontrolled), lb/ton product (AP-42 Table 11.1-3)

 $0.023\,$ PM $_{10}$ emission factor (controlled), lb/ton product (AP-42 Table 11.1-3 - Fabric Filter)

 $0.9841\,$ PM $_{2.5}$ emission factor (uncontrolled), lb/ton product (assumed 15.14H of uncontrolled PM $_{10}$)

0.0034822 $\,$ PM $_{2.5}$ emissionfactor (controlled), Ib/ton product (assumed 15.14H of controlled PM $_{10}$)

0.13 CO emission factor, lb/ton product (AP-42 Table 11.1-7)

0.026 NOx emission factor, lb/ton product (AP-42 Table 11.1-7)

0.0034 SO₂ emission factor, lb/ton product (AP-42 Table 11.1-7)

0.032 VOC emission factor, lb/ton product (AP-42 Table 11.1-8)

0.00000089 Lead emission factor, lb/ton product (AP-42 Table 11.1-11)

0.00529 Total HAP emission factor, lb/ton product (AP-42 Table 11.1-10) 1

Emission Estimates

Baghouse Stack (APBH1)

_	Contr	olled	Uncor	itrolled
	lb/hr	tpy	lb/hr	tpy
PM	13.20	11.55	11200.00	9800.00
PM ₁₀	9.20	8.05	2600.00	2275.00
PM _{2.5}	1.39	1.22	393.64	344.44
со	N/A	N/A	52.00	45.50
NOx	N/A	N/A	10.40	9.10
SO ₂	N/A	N/A	1.36	- 1.19
voc	N/A	N/A	12.80	11.20
Lead	N/A	N/A	0.0004	0.0003
Total HAPs	N/A	N/A	2.12	1.85

Emission Calculation Equations

Emissions (lb/hr) KEmission factor (lb/ton) * Production (ton/hr)
Emissions (ton/yr) KEmission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Notes:

1. Total HAP emission factor was estimated by adding the total non-PAH HAPs (0.0051 lb/ton) and total PAH HAPs (0.00019 lb/ton) in AP-42 Table 11.1-10

Hot Oil Heater Stack (APH1)

Basis and Assumptions

1020 Average Natural Gas (NG) Heating Value, MMBtu/MMscf (AP-42 Section 1.4)

2.5 Firing Rate, MMBtu/hr

8760 Annual Operating Hours Assume that PM KPM_{10} $KPM_{2.5}$

Emission Factors

7.6 PM emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

84 CO emission factor, lb/MMscf fired (AP-42 Table 1.4-1)

100 NOx emission factor, lb/MMscf fired (AP-42 Table 1.4-1)

0.6 SO₂ emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

5.5 VOC emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

1.89 Total HAP emission factor, lb/MMscf fired (AP-42 Table 1.4-3 and 1.4-4) $^{\mathrm{1}}$

Emissions Estimates

Hot Oil Heater Stack (APH1)

	Contro	lled	Uncontrolled	
	lb/hr	tpy	lb/hr	tpy
PM	N/A	N/A	0.02	0.08
PM ₁₀	N/A	N/A	0.02	0.08
PM _{2.5}	N/A	N/A	0.02	0.08
со	N/A	N/A	0.21	0.90
NOx	N/A	N/A	0.25	1.07
SO ₂	N/A	N/A	0.001	0.01
voc	N/A	N/A	0.01	0.06
HAP	N/A	N/A	0.005	0.02

Tables 1.4-2, 1.4-3 and 1.4-4 Emi	ssion Factor	rs (HAP)
2- Methylnaphthalene		2.40E-05
3- Methylcholanthrene		1.80E-06
7,12-Dimethylbenz(a)anthracene	2	1.60E-05
Acenaphthene		1.80E-06
Acenaphthylene		1.80E-06
Anthracene		2.40E-06
Benz(a)anthracene		1,80E-06
Benzene		2.10E-03
Benzo(a)pyrene		1.20E-06
Benzo(b)fluoranthene		1.80E-06
Benzo(g,h,i)perylene		1.20E-06
Benzo(k)fluoranthene		1.80E-06
Chrysene		1.80E-06
Dibenzo(a,h)anthracene		1.20E-06
Dichlorobenzene		1.20E-03
Fluoranthene		3.00E-06
Fluorene		2.80E-06
Formaldehyde		7.50E-02
Indeno(1,2,3-cd)pyrene		1.80E-06
Naphthalene		6.10E-04
Phenanathrene		1.70E-05
Pyrene		5.00E-06
Toluene		3.40E-03
Arsenic		2.00E-04
Beryllium		1.20E-05
Cadmium		1.10E-03
Chromium		1.40E-03
Cobalt		8.50E-04
Manganese		3.80E-04
Mercury		2.60E-04
Nickel		2,10E-03
Selenium		2.40E-05
Lead		5.00E-04
	TOTAL	1.89EJ00

Emission Calculation Equations

Emissions (lb/hr) KEmission Factor (lb/MMscf) / Average NG Heating Value (MMBtu/MMscf) * Firing Rate (MMBtu/hr) Emissions (tpy) KEmissions (lb/hr) * Operating Hours (hr/yr) / 2000 (lb/ton)

Note:

1. Total HAP emission factor was estimated by adding the HAPs in Tables 1.4-2, 1.4-3, and 1.4-4.

Drum Mixer Loadout, Silo Filling, and Truck Loadout Emissions

Basis and Assumptions

400 Hourly production, ton/hr

700,000 Annual Production, tpy

-0.5 Asphalt volatility (assumed, worst-case)

325 Typical Asphalt Temperature, deg. F
Assume that PM KPM₁₀ KPM_{2.5}
Emission Factors from AP-42 Table 11.1-14

Emission Factors (Drum Mix Loadout and Truck Loadout)

0.001 PM emission factor, lb/ton product K0.000181 J 0.00141(-V)e^((0.0251*(TJ460)-20.43))

0.001 CO emission factor, lb/ton product K0.00558(-V)e^((0.0251*(TJ460)-20.43))

0.004 VOC emission factor, lb/ton product K0.0172(-V)e^((0.0251*(TJ460)-20.43)) (TOC as propane)

Emission Factors (Silo Filling)

0.001 PM emission factor, lb/ton product K0.000332 J 0.00105(-V)e^((0.0251*(TJ460)-20.43))

0.001 CO emission factor, lb/ton product K0.00488(-V)e^((0.0251*(TJ460)-20.43))

0.012 VOC emission factor, Ib/ton product K0.0504(-V)e^((0.0251*(TJ460)-20.43)) (TOC as propane)

Emissions Estimates

	Drum mixer	Transfer to	Conveyor 7	Transfer to		
	Silo Con	veyor 7	Silo 1	illing	Silo truck	k loadout
	(APT	R10)	(APT	R11)	(APT	R12)
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
PM	0.21	0.18	0.23	0.21	0.21	0.18
PM ₁₀	0.21	0.18	0.23	0.21	0.21	0.18
PM _{2.5}	0.21	0.18	0.23	0.21	0.21	0.18
со	0.54	0.47	0.47	0.41	0.54	0.47
voc	1.66	1.46	4.87	4.27	1.66	1.46

Emissions Calculations Equations

Emissions (lb/hr) KEmission Factor (lb/ton) * Production (ton/hr)
Emissions (ton/yr) KEmission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Note:

Controlled and uncontrolled emission estimates are the same.

Pugmill and Scalping Screen

Basis and Assumptions

400 Hourly Production, ton/hr (Aggregate J Sand) - Pugmill 400 Hourly Production, ton/hr (Aggregate J Sand) - Scalping Screen

700,000 Maximum Annual Production, tpy (Aggregate J Sand) - Pugmill 700,000 Maximum Annual Production, tpy (Aggregate J Sand) - Scalping Screen

Emission Factors

0.025 PM emission factor, lb/ton (AP-42, Table 11.19.2-2, Uncontrolled Screening) 0.0022 PM emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)

 $0.0087~PM_{10}$ emission factor, lb/ton (AP-42, Table 11.19.2-2, Uncontrolled Screening) $0.00074~PM_{10}$ emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)

0.000588 ¹PM_{2.5} emission factor, lb/ton (Uncontrolled Screening) 0.000050 PM_{2.5} emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)

^{*} AP-42 does not have emissions factors for pugmills (mixers), so screening emission factors are utilized.

Pugmill and Scalping Screen Emissions Estimates

Emissic	on Source	Pugmill (APPMILL)	Scalping Screen (Cold Aggregate Feed System) (APSCRN1)
Material / Basis f	or Emission Factor	aggregate J sand	aggregate J sand
l '	roughput / Production n/hr)	400	400
	roughput / Production n/yr)	700,000	700,000
	EF, emission factor PM (lb/ton) EF, emission factor	0.0022	0.00220
Controlled	PM ₁₀ (lb/ton)	0.00074	0.00074
	EF, emission factor PM _{2.5} (lb/ton)	0.000050	0.000050
	EF, emission factor PM (lb/ton)	0.025	0.025
Uncontrolled	EF, emission factor PM ₁₀ (lb/ton) EF, emission factor	0.0087	0.0087
	PM _{2.5} (lb/ton)	0.000588	0.000588
	PM (lb/hr)	0.88	0.88
	PM ₁₀ (lb/hr)	0.30	0.30
	PM _{2.5} (lb/hr)	0.02	0.02
Controlled	PM (ton/yr)	0.77	0.77
	PM ₁₀ (ton/yr)	0.26	
	PM _{2.5} (ton/yr)	0.02	
	PM (lb/hr)	10.00	
	PM ₁₀ (lb/hr)	3.48	
Uncontrolled	PM _{2.5} (lb/hr)	0.24	
Oncome on cu	PM (ton/yr)	8.75 3.05	
	PM ₁₀ (ton/yr) PM _{2.5} (ton/yr)	0.21	
	Pivi _{2.5} (ton/yr)	0.21	0.23

Emissions Calculations Equations

Emissions (lb/hr) KEmission Factor (lb/ton) * Production (ton/hr) Emissions (ton/yr) KEmission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Note

1. The uncontrolled $PM_{2.5}$ emission factor was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:

0.000588 lb/ton K0.0087 lb/ton *(0.000050 lb/ton / 0.00074 lb/ton)

Recycled Asphalt (RAP)

Basis and Assumptions

40 Hourly throughput, tons/hr
1,400 Annual throughput, tpy
*Due to low dust content of RAP, transfer emissions are estimated using conveyor transfer factors

Emission Factors

0.003 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Uncontrolled) 0.00014 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)

 $0.0011\,$ PM $_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Uncontrolled) $0.000046\,$ PM $_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)

0.00031 ¹PM_{2.5} emission factor, lb/ton (Conveyor, Uncontrolled)
0.000013 PM_{2.5} emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)

0.0054 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Uncontrolled) 0.0012 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Controlled)

 $0.0024~PM_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Uncontrolled) $0.00054~PM_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Controlled)

0.00044 ²PM_{2.5} emission factor, lb/ton (Crusher, Uncontrolled) 0.0001 PM_{2.5} emission factor, lb/ton (AP-42 Table 11.19.2-2, Crusher, Controlled)

0.025 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Uncontrolled) 0.0022 PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)

 $0.0087~PM_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Uncontrolled) $0.00074~PM_{10}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)

0.00059 ³PM_{2.5} emission factor, lb/ton (Screening, Uncontrolled) 0.00005 PM_{2.5} emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)

Recycled Asphalt (RAP) Emissions Estimates

Emission Sourc	e	Material Transfer (FEL Transfer to Cold Feed Bin) (APTR7)	Material Transfer (Cold Feed Bin transfer to Conveyor 5) (APTR8)	RAP Gator Crushing (APCR1)	RAP Screen (APSCRN2)	Material Transfer (RAP Screen Transfer to Conveyor 6) (APTR9)
Material / Basis	s for Emission Factor	RAP	RAP	RAP	RAP	RAP
AP, Actual Hou Production (to	rly Throughput /	40	40	40	40	40
	ual Throughput /	1,400	1,400	1,400	1,400	1,400
	EF, emission factor PM (lb/ton)	0.00014	0.000140	0.0012	0.0022	0.00014
Controlled	EF, emission factor PM10 (lb/ton)	0.000046	0.000046	0.00054	0.00074	0.000046
	EF, emission factor PM _{2.5} (lb/ton)	0.000013	0.000013	0.0001	0.00005	0.000013
	EF, emission factor PM (lb/ton)	0.003	0.003	0.0054	0.025	0.003
Uncontrolled	EF, emission factor PM ₁₀ (lb/ton)	0.0011	0.0011	0.0024	0.0087	0.0011
	EF, emission factor PM _{2.5} (lb/ton)	0.00031	0.00031	0.00044	0.00059	0.00031
	PM (lb/hr)	0.01	0.01	0.05	0.09	0.01
	PM ₁₀ (lb/hr)	0.002	0.002	0.02	0.03	0.002
	PM _{2.5} (lb/hr)	0.001	0.001	0.004	0.002	0.001
Controlled	PM (ton/yr)	0.0001	0.0001	0.001	0.002	0.0001
	PM ₁₀ (ton/yr)	0.00003	0.00003	0.0004	0.001	0.00003
	PM _{2.5} (ton/yr)	0.00001	0.00001	0.00007	0.00004	0.00001
	PM (lb/hr)	0.12	0.12	0.22	1.00	0.12
	PM ₁₀ (lb/hr)	0.04	0.04	0.10	0.35	0.04
	PM _{2.5} (lb/hr)	0.01	0.01	0.02	0.02	0.01
Uncontrolled	PM (ton/yr)	0.002	0.004	0.02	0.02	
	PM ₁₀ (ton/yr)	0.001	0.001	0.002	0.01	0.001
	PM _{2.5} (ton/yr)	0.0002	0.0002	0.0003	0.0004	0.0002

Emissions Calculations Equations

Emissions (lb/hr) KEmission Factor (lb/ton) * Hourly Throughput (ton/hr)

Emissions (ton/yr) KEmission Factor (lb/ton) * Annual Throughput (ton/yr) / 2000 (lb/ton)

Notes:

- 1. The uncontrolled $PM_{2.5}$ emission factor for the conveyors was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows: 0.00031 lb/ton K0.0011 lb/ton *(0.000013 lb/ton / 0.000046 lb/ton)
- 2. The uncontrolled $PM_{2.5}$ emission factor for crushing operations was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows: 0.00044 lb/ton K0.0024 lb/ton *(0.0001 lb/ton / 0.00054 lb/ton)
- 3. The uncontrolled $PM_{2.5}$ emission factor for screening was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows: 0.00059 lb/ton K0.0087 lb/ton *(0.00005 lb/ton / 0.00074 lb/ton)

GCC Sun City Materials, LLC 2024 Emission Calculations Vado Asphalt Plant

Material Handling (Cold Aggregate Feed) - Conveyors

Basis and Assumptions

8760 Hours of Operation

340 Hourly Aggregate Transferred, ton/hr 80 Hourly Sand Transferred, ton/hr

595,000 Annual Aggregate Transferred, tpy 140,000 Annual Sand Transferred, tpy

Emission Factors (Conveyor Transfers)

0.003 PM emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.19.2-2) 0.00014 PM emission factor (Aggregate, Conveyor, Controlled), lb/ton transferred (AP-42 Table 11.19.2-2)

0.0011 PM₁₀ emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.19,2-2) 0,000046 PM₁₀ emission factor (Aggregate, Conveyor, Controlled), lb/ton transferred (AP-42 Table 11.19.2-2)

0.000013 PM_{2.5} emission factor (Aggregate, Conveyor, Controlled), lb/ton transferred (AP-42 Table 11.19.2-2) $0.00031\ ^1\mathrm{PM}_{2.5}$ emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred

0.0021 PM emission factor (Sand, Conveyor, Uncontrolled), Ib/ton transferred (AP-42 Table 11.12-2) 0.0021 PM emission factor (Sand, Conveyor, Controlled), Ib/ton transferred

0.00099 PM₁₀ emission factor (Sand, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.12-2) $0.00099 \, \, \text{PM}_{10} \, \text{emission factor (Sand, Conveyor, Controlled), lb/ton transferred}$ 0.00015 PM2s emission factor (Sand, Conveyor, Uncontrolled), lb/ton transferred, (PMo EF Sand Conveyor Uncontrolled AP-42 Table 11.12-2) * k(PMs_s)/k(PM1s)

0.00015 PM_{2.5} emission factor (Sand, Conveyor, Controlled), lb/ton transferred

 $k(PM_{25})~K0.053~and~k(PM_{10})~K0.35~(AP-42-13.2.4~Aerodynamic~Particle~Size~Multiplier)$

Material Handling (Cold Aggregate Feed) Conveyors Emissions Estimates

Emissio	Emission Source	Material Transfers (Front-end-loader drop into bins) (APTR1)	ransfers oader drop oins)	Material Transfers (Cold Feed Bin Transfer to Conveyor 1) (APTR2)	ransfers Transfer to or 1) (2)	Material Transfers (Conveyor 1 Transfer to Conveyor 2) (APTR3)	ransfers Transfer to or 2)	Material Transfers (Conveyor 2 Transfer into Pugmill) (APTR4)	ansfers Transfer gmill)	Material Transfers (Pugmill Transfer to Conveyor 3) (APTR5)	ransfers ansfer to ror 3)	Material Transfers (Scalping Screen Transfer to Conveyor 4) (APTR6)	ransfers n Transfer to or 4) R6)	Material Transfer (Versabind/Lime Transfer to Conveyor 8) (APTR13)
Material / Basis f	Material / Basis for Emission Factor	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Versabind/Lime
AP, Actual Hourly Throug	AP, Actual Hourly Throughput / Production (ton/hr)	340	80	340	80	340	80	340	80	340	80	340	80	30.6
AP, Actual Annual Throu	AP, Actual Annual Throughput / Production (ton/yr)	595,000	140,000	000,263	140,000	595000	140000	595000	140000	595000	140000	295000	140000	120
	EF, emission factor PM (lb/ton)	0.00014	0.0021	0.00014	0.0021	0.00014	0.0021	0.00014	0,0021	0.00014	0.0021	0.00014	0.0021	0.0089
Controlled	EF, emission factor PM ₁₀ (lb/ton)	0.000046	0.00099	0.000046	0.00099	0.000046	0.00099	0.000046	0.00099	0.000046	0.00099	0.000046	0.00099	0.0049
	EF, emission factor PM _{2.5} (lb/ton)	0.000013	0.00015	0.000013	0.00015	0.000013	0.00015	0.000013	0.00015	0.000013	0.00015	0.000013	0.00015	0.0049
	EF, emission factor PM (lb/ton)	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	3.14
Uncontrolled	EF, emission factor PM ₁₀ (lb/ton)	0.0011	0.00099	0.0011	0.00099	0,0011	0.00099	0.0011	0.00099	0.0011	0.00099	0.0011	0.00099	1.1
	EF, emission factor PM _{2.5} (lb/ton)	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	1.1
	PM (Ib/hr)	0.05	0.17	0.05	0.17	0.05	0.17	0.05	0.17	0.02	0.17	50.0	0.17	0.27
	PM ₁₀ (lb/hr)	0.02	0.08	0.02	80.0	0.02	0.08	0.02	0.08	0.02	0.08	0.02	0.08	0.15
=	PM _{2.5} (lb/hr)	0.004	0.01	0.004	0.01	0.004	0.01	0.004	0.01	0,004	0.01	0.004	0.01	0.15
Controlled	PM (ton/yr)	0.04	0.15	0.04	0.15	0.04	0.15	0.04	0.15	0.04	0.15	0.04	0.15	0.001
	PM ₁₈ (ton/yr)	0.01	0.07	0.01	0.07	0.01	0.07	0.01	0.07	0.01	0.07	0.01	0.07	0.000
	PM _{2.5} (ton/yr)	0.004	0.01	0.004	0.01	0,004	0.01	0.004	0.01	0.004	0.01	0.004	0.01	0.000
	PM (lb/hr)	1.02	0.17	1.02	0.17	1.02	0.17	1.02	0.17	1.02	0.17	1.02	0.17	96.08
	PM ₁₀ (lb/hr)	0.37	80.0	0.37	0.08	0.37	0.08	0.37	0.08	0.37	0.08	0.37	0.08	33.66
	PM _{2.5} (lb/hr)	0.11	0.01	0.11	0.01	0.11	0.01	0,11	0.01	0,11	0.01	0.11	0.01	33.66
Uncontrolled	PM (ton/yr)	0.89	0.15	68.0	0.15	68.0	0.15	68'0	0.15	0.89	0.15	0.89	0.15	0.19
	PM ₁₀ (ton/yr)	0.33	0.07	0.33	0.07	0.33	0.07	0.33	0.07	0.33	0.07	0.33	0.07	0.07
	PM _{2.5} (ton/yr)	0.09	0.01	0.09	0.01	60'0	0.01	0.09	0.01	0.09	0.01	60.0	0.01	0.07

Material Handling (Cold Aggregate Feed) Conveyors Emission Summary

								Material Transfer
		Material Transfers	Material Transfers	Material Transfers	Material Transfers	Material Transfers	Material Transfers	(Versabind/Lime
		(Front-end-loader drop	(Cold Feed Bin Transfer to	(Conveyor 1 Transfer to	(Conveyor 2 Transfer	(Pugmill Transfer to	(Scalping Screen Transfer to	Transfer to
		into bins)	Conveyor 1)	Conveyor 2)	into Pugmill)	Conveyor 3)	Conveyor 4)	Conveyor 8)
Emissic	Emission Source	(APTR1)	(APTR2)	(APTR3)	(APTR4)	(APTR5)	(APTR6)	(APTR13)
Material / Basis	Material / Basis for Emission Factor	Aggregate J Sand	Aggregate J Sand	Aggregate J Sand	Aggregate J Sand	Aggregate J Sand	Aggregate J Sand	Versabind/Lime
	PM (Ib/hr)	0.22	0.22	0.22	0.22	0.22	0.22	0.27
	PM ₁₀ (lb/hr)	0.09	60.0	60:0	0.09	0.09	0.09	0.15
	PM _{2.5} (lb/hr)	0.02	0.02	0.02	0.02	0.02	0.02	0.15
Controlled	PM (ton/yr)	0.19	0.19	0.19	0.19	0.19	0.19	0.001
	PM ₁₀ (ton/yr)	0.08	0.08	0.08	0.08	0.08	0.08	0.0003
	PM _{2.5} (ton/yr)	0.01	0.01	0.01	0.01	0.01	0.01	0.0003
	PM (lb/hr)	1.19	1.19	1.19	1.19	1.19	1.19	80.96
	PM ₁₀ (lb/hr)	0.45	0.45	0,45	0.45	0.45	0.45	33.66
	PM _{2.5} (lb/hr)	0.12	0.12	0.12	0.12	0.12	0.12	33.66
Uncontrolled	PM (ton/yr)	1.04	1.04	1,04	1.04	1.04	1.04	0.19
	PM ₁₀ (ton/yr)	0.40	0.40	0.40	0.40	0.40	0.40	0.07
	PM _{2.5} (ton/yr)	0.10	0.10	0.10	0,10	0.10	0.10	0.07

Emissions Calculations Equations

Emissions Aggregate (Ib/hr) KEmission Factor (Ib/ton) * Aggregate Transferred (ton/hr) Emissions Sand (Ib/hr) KEmission Factor (Ib/ton) * Sand Transferred (ton/hr) Total Emissions (Ib/hr) KEmissions Aggregate (Ib/hr) J Emissions Sand (Ib/hr) Emissions Aggregate (ton/yr) KEmission Factor (lb/ton) * Aggregate Transferred (ton/yr) / 2000 (lb/ton) Emissions Sand (ton/yr) KEmission Factor (lb/ton) * Sand Transferred (ton/yr) / 2000 (lb/ton) Total Emissions (ton/yr) KEmissions Aggregate (ton/yr) J Emissions Sand (ton/yr)

Note 1. The uncontrolled PMs, emission factor for the conveyors (APTR2 - APTR6) was calculated based on a ratio of controlled PMs, and controlled PMs, as follows:

0.00031 lb/ton K0.0011 lb/ton *(0.000013 lb/ton / 0.000046 lb/ton)

Note 2. Emission factors for the Versabind and/or Lime conveyor (APTR13) was taken from AP-42, 5th Ed., Table 11.12-2 (concrete Batching). Factor is for fly ash due to lack of an emission factor for Versabind and/or lime. Assume PM_{2.5} KPM₁₀

Versabind/Lime Silo Dust Collector (APDC1)

Material / Basis for Emission	
Factor	Versabind / Lime
AP, Actual Hourly Throughput /	
Production (ton/hr)	30.6
AP, Actual Annual Throughput	
/ Production (ton/yr)	120
Control Efficiency H	99.9
EF, emission factor PM	
(lb/ton) ¹	3.14
EF, emission factor PM ₁₀	
(lb/ton) ¹	1.1
EF, emission factor PM _{2.5}	
(lb/ton) ¹	1.1

Versabind/Lime Silo Dust Collector (APDC1)

	Contr	olled	Unco	ntrolled
	lb/hr	tpy	lb/hr	tpy
PM	0.10	0.0002	96.08	0.19
PM ₁₀	0.03	0.00007	33.66	0.07
PM _{2.5}	0.03	0.00007	33.66	0.07

Emissions Calculations Equations

Emissions (lb/hr) K Emission factor (lb/ton) * Throughput/Production (ton/hr) * (1-Control EffH/100) Emissions (tpy) KEmissions factor (lb/ton) * Throughput/Production (ton/yr) * (1-Control EffH / 100) / 2000 (lb/ton)

<u>Note</u>

1. Emission factors from AP-42, 5th Ed., Table 11.12-2 (concrete Batching). Factor is for fly ash due to lack of an emission factor for Versabind and/or lime. Assume $PM_{2.5}$ KPM₁₀

GCC Sun City Materials, LLC - Emissions Ashpalt Tank 22 (APTK1) AP-42 Calculation (Normal Operations) 2024 Emission Calculations

² ANNUAL gals		210,000.00
11 ft	D	Shell Diameter
38 ft	H _s	Shell Height
36 ft	HL	Average Liquid Height
0.001 ft/ft	SR	Tank Cone Roof Slope
25,591 gals	V	Working Volume
8.21	N	Turnovers per year
5,000.00 bbl/yr		Throughput
28,070.00 ft3/yr		Net Throughput
1	K_P	Working Loss Product Factor (VOL K1; Crude Oils K0.75)
1.000	K _N	Working Loss Turnover Factor
0.0055 ft	H_R	Tank Roof Height
0.00 ft	H_{RO}	Roof Outage
2.00 ft	H_{vo}	Vapor Space Outage
190.24 ft ³	V_V	Tank Vapor Space Volume
10.731 psia-fi	t ³ / lb-mol-R R	Ideal Gas Constant
0.1	α	Solar absorptance factor
1906.50 Btu/ft	.²-d I	Daily Total Solar Insolation on a Horizontal Surface
785.00 R	T_B	Liquid Bulk Temperature
785.00 R	T_LA	Daily Average Liquid Surface Temperature
0.11 psia	P_{VA}	Vapor Pressure at Daily Average Liquid Surface Temp
12.76 psia	P_A	Atmospheric Pressure
84.00 g/mol	M _V	Molecular Weight
0.001 lb/ft ³	W_{V}	Vapor Density
0.00 R	ΔT_A	Daily Ambient Temperature Range (0 since tank is heated)
0.00 R	ΔT_{V}	Daily Vapor Temperature Range (0 since tank is heated)
785.01 R	T_LX	Maximum Liquid Temperature
784.99 R	T_LN	Minimum Liquid Temperature
0.11 psia	P_{VX}	Vapor Pressure at the daily maximum liquid temperature
0.11 psia	P_{VN}	Vapor Pressure at the daily minimum liquid temperature
0.00 psia	ΔP_V	Daily Vapor Pressure Range
0.00 psig	P_{BP}	Breather Vent Pressure Setting
0.00 psig	P_{BV}	Breather Vent Vacuum Setting
0.00 psig	ΔP_{B}	Breather Vent Pressure
0.0000	K _E	Vapor Space Expansion Factor
0.9885	K_{S}	Vented Vapor Space Saturation Factor
1	К _в	Vent Setting Correction Factor
	FRm	Maximum Pump Rate, gal/hr

VOC emissions Tank 22 (APTK1):

- lb/yr	Standing Storage Losses
30.79 lb/yr	Working Losses
30.79 lb/yr	Total Losses
0.02 Ton/yr	Total Losses

Note 1. The maximum asphalt cement annual throughput will be 630,000 gallons (APTK1 J APTK2 J APTK3)

GCC Sun City Materials, LLC - Emissions Ashpalt Tank 23 (APTK2) and Tank 24 (APTK3) - (EACH TANK) AP-42 Calculation (Normal Operations)

2024 Emission Calculations

¹ ANNUAL	gals		210000
	11 ft	D	Shell Diameter
	35 ft	H_{S}	Shell Height
	33 ft	H_L	Average Liquid Height
0.0	01 ft/ft	SR	Tank Cone Roof Slope
23,45	8 gals	V	Working Volume
8.	95	N	Turnovers per year
5,000.0	0 bbl/yr	Q	Throughput
280	70 ft3/yr	V_{Q}	Net Throughput
	1	K_P	Working Loss Product Factor (VOL K1; Crude Oils K0.75)
1.0	00	K_N	Working Loss Turnover Factor
0.00	55 ft	H_R	Tank Roof Height
0.	00 ft	H_{RO}	Roof Outage
2.	00 ft	H_{VO}	Vapor Space Outage
190.2	4 ft³	V_{V}	Tank Vapor Space Volume
10.7	31 psia-ft³/lb-mol-R	R	Ideal Gas Constant
	0.1	α	Solar absorptance factor
1906.	50 Btu/ft²-d	1	Daily Total Solar Insolation on a Horizontal Surface
785.	00 R	T_B	Liquid Bulk Temperature
785.	00 R	T_LA	Daily Average Liquid Surface Temperature
0.	11 psia	P_{VA}	Vapor Pressure at Daily Average Liquid Surface Temp
12.	76 psia	P_A	Atmospheric Pressure
	00 g/mol	M_V	Molecular Weight
0.0	01 lb/ft	W_{V}	Vapor Density
0.	00 R	ΔT_A	Daily Ambient Temperature Range (0 since tank is heated)
0.	00 R	ΔT_V	Daily Vapor Temperature Range (0 since tank is heated)
785.	01 R	T_{LX}	Maximum Liquid Temperature
784.	99 R	T_LN	Minimum Liquid Temperature
0.	11 psia	P_{VX}	Vapor Pressure at the daily maximum liquid temperature
0.	11 psia	P_{VN}	Vapor Pressure at the daily minimum liquid temperature
	00 psia	ΔP_V	Daily Vapor Pressure Range
	00 psig	P_{BP}	Breather Vent Pressure Setting
0.	00 psig	P_{BV}	Breather Vent Vacuum Setting
0.	00 psig	ΔP_B	Breather Vent Pressure
0.00	00	K_{E}	Vapor Space Expansion Factor
0.98	85	Ks	Vented Vapor Space Saturation Factor
	1	K _B	Vent Setting Correction Factor

VOC emissions Tank 23 (APTK2) and Tank 24 (APTK3) - each tank

	lb/yr	Standing Storage Losses
30.79	lb/yr	Working Losses
30.79	lb/yr	Total Losses
0.02	Ton/yr	Total Losses

Note 1. The maximum asphalt cement annual throughput will be 630,000 gallons (APTK1 J APTK2 J APTK3)

Stockpile Calculations

GCC Sun City Materials, LLC Vado Site Stockpiles 2024 Emission Calculations

E= Emission Factor (lb/ton)		AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles" (ver 11/2006
$E = k \times (0.0032) \times (U/5)^{1.3} / (M/2)^{1.4}$		
k PM	0.74	
k PM ₁₀	0.35	
k PM _{2.5}	0.053	
U Max Hour	11.0 Max MPH	
U Annual Hour	3.4 Ave MPH	
M uncontrolled emissions	2.00 %	
M controlled emissions	2.88 %	AP-42 Section 11.19.2 Table 11.19.2-2 Note b: High Controlled Moisture

	(uncontrolled) 0.00660 0.00312 0.00347	(controlled) 0.00396 0.00187 0.00028
E(PM) Annual Hour (lb/ton) = E(PM;,,) Annual Hour (lb/ton) =	0.00145	0.00087
E(PM _{2.5}) Annual Hour (lb/ton) =	0.00010	0.00006

	Area (m²)	%
SP10	1034.8	%29
SP11	243.2	16%
SP12	262.68	17%
Total area		
Aggregate		
SP Asphalt		
plant	1540.68	100%

Stockpiles Emission Calculation

lb/hr = Emission factor Max Hour (lb/ton) * Hourly throughput (ton/hr) * percent of throughput tpy = Emission factor Annual Hour (lb/ton) * Annual throughput (ton/yr) * 1 ton/2000 lb * percent of throughput

							Crushing
			Aspha	Asphalt Plant			Plant ²
	Source ID	SP9	SP10	SP11	SP12	SP13	SP18
	Material	Sand	Aggregate	Aggregate	Aggregate	RAP	RAP
	Hourly throughput (ton/hr)	80	340	340	340	40	40
	Annual throughput (ton/yr)	700800	2978400	2978400	2978400	2000	2000
	¹ Percent of throughput	100%	%29	16%	17%	100%	100%
	PM (lb/hr)	0.53	1.51	0.35	0.38	0.26	0.26
	PM (ton/yr)	0.51	1.45	0.34	0.37	0.01	0.01
	PM ₁₀ (lb/hr)	0.25	0.71	0.17	0.18	0.12	0.12
Uncontrolled Emissions	PM ₁₀ (ton/yr)	0.24	0.68	0.16	0.17	0.002	0.002
	PM _{2.5} (lb/hr)	0.04	0.11	0.03	0.03	0.02	0.02
	PM _{2.5} (ton/yr)	0.04	0.10	0.02	0.03	0.0004	0.0004
	PM (lb/hr)	0.32	06:0	0.21	0.23	0.16	0.16
	PM (ton/yr)	0.30	0.87	0.20	0.22	0.003	0.003
	PM ₁₀ (lb/hr)	0.15	0.43	0.10	0.11	0.07	0.07
Controlled Emissions	PM ₁₀ (ton/yr)	0.14	0.41	0.10	0.10	0.001	0.001
	PM _{2.5} (lb/hr)	0.02	0.06	0.02	0.02	0.01	0.01
	PM _{2.5} (ton/yr)	0.02	90.0	0.01	0.02	0.0002	0.0002

Note 2: Calculations for transfers from stackers to stockpiles for crushing operations (CPSTK1 to CPSTK8) can be found in the Crushing Plant emission Note 1: Percent of throughput for the aggregate stockpiles at the asphalt plant may vary. calculation sheet.

Haul Road Calculations

GCC Sun City Materials, LLC - Vado Site Haul Roads 2024 Emission Calculations

UNPAVED ROADS AP-42 13.2.2 (ver 11/2006) "Unpaved Roads" Table 13.2.2-1 and Table 13.2.2-2	is is
Equation Emission Factor: E = k(s/12)^a*(W/3)^b	
Equation Vehicle Miles Traveled: VMT = T * L	
quation Emission Rate:	
Uncontrolled emissions = E * VMT Controlled emissions = E * VMT * (1-CE)	
NMED accepted control efficiency base coarse and surfactant:	
K P M	4.9
k PM10	1.5
k PM2.5	0.15
a PM	0.7
a PM2.5	6.0
b PM	0.45
b PM10	0.45
b PM2.5	0.45

PAVED ROADS AP-42 13.2.1 (ver 1/2011) "Paved Road" Table AP-42 13.2.1-1 and Table 13.2.1-3 Gquation Emission Factor: E = k[s1/v0.91-fW)^1.02	les Traveled:	late:	lons = E * VMT s = E * VMT * (1-CE)	%56	0.011	0.0022	0.00054	12 g/m²
PAVED ROADS AP-42 13.2.1 (ver 1/2011) 13.2.1-1 and Table 13.2.1. Equation Emission Factor: E = k(s1)n0.91*(W)n1.02	Equation Vehicle Miles Traveled: VMT = T * L	Equation Emission Rate:	Uncontrolled emissions = E * VMT Controlled emissions = E * VMT *	NMED accepted control efficiency - paved and swept:	K PM	k PM10	k PM2.5	sl, Road surface slt loading

oader	[ton] 21.4385	(ton) 12	Weight (ton) 33.4385	(ton) 27.4385
uper 16	11.18	23	34.18	22.68
uper 18	14.67	24	38.67	26.67
lt/Cement/Agg	15	32	47	31.00

			Tons per	Trucks per	Trucks per	
	ASPHALT PLANT	ţΦ	truck/load	year	hour	
						Trucks hauling
	Sand					material from Stockpile 9 to cold
Loader	transferred	140000	12	11667	2.0 HR5	feed blns
						Trucks hauling
					Tall Call	material from
Loader	Aggregate transferred	295000	12	49583	6.0 HR6	to cold feed bins
						Trucks hauling
						material from
	RAP					Stockpile 13 to RAP
Loader	Throughput Asphalt	1400	12	117	1.0 HR7	plu l
Super 16/18	production	700000	23	30435	6.0 HRB	Asphalt trucks
						Trucks hauling
						offsite materials
Super 16/18			23	6087	1.0 HR12	into site

	CRUSHING		Tons per	Trucks per	Trucks per	
	PLANT	τpγ	truck/load	year	hour	
	Plant					Trucks to the
Plt truck	throughput	3505752	32	109555	13.0 HR11	Quarry Plt
	Leftover					Trucks haufing
	aggregate for					offsite aggregates
Super 16/18	sale	2910752	23	126554	15.0 HR10	sale
45705						Trucks haufing RAP
	RAP					from offsite to RAP
Super 18	Throughput	1400	24	28	1.0 HR9	Stockpile
8						RAP Transport from
loader	RAP Crushing	1400	12	117	1.0 HR13	SP to RAP Crushing

						Choaved had Koads	2005					LONG	Laveu man nogue	
								7				Poster Gan		
	Course		697	Van	מפע	HPK		nns unpaveu	HB11	H013	HRB	segment	HR10	HR12
	Model ID		HR3	HR4	E SH	HRG	HR7	H9U	H11	E	HR8	HBP	H10	H12
Thourty	Trucks per hour		9	9	2	9		1	13	1	9	1	15	
Tannual	Trucks per year		49583	49583	11667	49583	117	28	109555	117	30435	28	126554	6087
	Total length traveled													
	per truck	(meters)	361	330	232	242	129	745	1057	187	2449	2511	2517	2091
	Total length traveled			į			;	;	•		;	,	,	,
	per truck Vehicle Miles Traveled	(miles)	0.22	0.21	0.14	0.15	90.0	0.46	0.66	0.12	1.52	1.56	1,5b	1.30
WAAT hourby	per Hour	(VAT /hr)	1 35	1 23	92.0	0.00	800	0.46	8 54	0.12	9 13	1.56	23.46	1.30
4	Vehicle Miles Traveled							2					!	
VMT annual	Per Year	(VMT/year)	11130.30	10169.65	1683.58	7441.15	9:38	26.99	71946.22	13.60	46315.09	91.03	197892.29	7908.48
A	Avg Vehicle Weight	(tons)	27	72	22	27	77	22	32	22	27	77	22	72
	PM EmissionFactor	(Ib/VMT)	6:33	6.9	6.99	6.99	6.99	6.90	7.49	66.9	3.01	3.01	3.01	3.01
	PM Emission Rate									The same				
	(Uncontrolled)	lb/hr	9,41	8.60	2.02	6.29	0.56	3.19	63.91	0.81	N/A	N/A	N/A	N/A
	PM Emission Rate									0.000				9 500
	(Uncontrolled)	tpy	38.88	35.52	5.88	25.99	0.03	0.09	269,30	0,05	V V	N/A	N/A	A/N
	Friscian Rate	lh/hr	0.94	98.0	0.00	690	0.06	0.37	6.39	0.08	1.37	0.23	3.53	0.20
	PM Controlled		i i								Ì			
	Emission Rate	tpy	3.89	3.55	0.59	2.599	0.003	0.01	26.93	0.005	3,48	0.007	14.87	0.59
u u	PM10 Emission Factor (lb/VMT)	r (Ib/vMT)	1.78	1.78	1.78	1.78	1.78	1.76	1.91	1.78	09'0	0.60	09:0	0.60
	PMID Emission Kate	1.4.		,	2	9	4		ac 21		N/A	V/N	N/A	M/A
	PM10 Emission Rate	ii /g	7:40	ET:7	TC'D	20-1	4	5		1				
	(Uncontrolled)	tpy	9.91	9.05	1.50	6.62	0.01	0.02	68.63	0.01	N/A	N/A	N/A	N/A
	PM 10 Controlled	1.4.		66.0	100	97.0	5	80.0	691	20.0	76.0	50.0	12.0	200
	PM 10 Controlled	ii /gi	47'0	0.22	60.0	915	1	900	3		ì	3	;	
	Emission Rate	tpy	0.99	0.91	0.15	99:0	0,001	0.002	6.863	0.001	0.70	0.001	2.97	0.12
	# Sources modeled		22	19	13	14	œ	42	29	27	184	140	140	117
	PM10 Controlled		1	;		į		0000	000	000	0	0000	4	000 0
	Emission Rate	(lb/hr)	0.01	0.01	0.004	0.01	0.002	0.002	0.028	0.001	0.001	0,0003	500.0	0.0003
	PM2.5 Emission									10000				
w	Factor	(Ib/vMT)	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.18	0.15	0.15	0.15	0.15
	PMZ.5 Emission Kate		7.0		20	27.0	5	80.0	9	000	9/10	A/N	4/14	N/A
	PM2.5 Emission Rate	lo/ul	0.24	0.22	60.0	gT:o	70.0	0.00	7:03	700	C .	C/2	•	
	(Uncontrolled)	tpy	0.99	0.91	0.15	99'0	0.001	0.00	6.86	000	N/A	N/A	N/A	N/N
	PM2.5 Controlled				i	ç	,	č	0	2	0	ò	6	
	Emission Rate DM2 5 Controlled	lb/hr	0.02	0.02	0.01	0.02	0.001	0.01	0.16	3.5	0.07	0.01	0.17	3
	Emission Rate	tþ	0.10	0.09	0.01	0.07	0,0001	0.000	0.686	0.000	0.17	0,000	0.73	0.03
	# Sources modeled		17	19	13	14	80	42	59	21	184	140	140	711
	Emission Rate													
	modeled ner course	(lb/hr)	0.001	0.001 0.0004 0.001 0.0002 0.0002	0.0004	0.001	0.0002	0.0002	0.0028	0.0001	0.0004	0.0001	0.0012	0.0001

Trucks hauling offsite materials into site 0.20 ×× 0.59 N/A 0.04 N/A N/A 0.01 Site HR12 Loaders from Main RAP Stockpile to Crushing 0.05 0.0B 0.01 0.02 0,02 0.0001 0.005 0.21 0.001 0.001 0.002 HR13 Trucks to the Quarry Pit 1.63 Trucks hauling offsite aggregates sale Š Š 3.53 0.71 Š 2.97 Š 0.73 Trucks hauling RAP from offsite to Main RAP Stockpile 0.09 0.55 0.02 0.02 0.13 0.002 0.004 0.001 £ Ϋ́ 1.37 3.48 ¥ Ϋ́ 0.27 0.70 Ϋ́ Asphalt Trucks 28 Trucks hauling material from Stockpile 13 to RAP bin 90.0 0.01 0.01 0.03 0.003 0.001 0.001 0.001 HR7 Trucks hauling material from Stockpile 10 to cold feed bins 0.63 2.60 6.62 99'0 0.07 Asphalt Plant Emissions Summary - Haul Roads Trucks hauling material from Stockpile 9 to cold feed bins 0.20 0.59 0.51 1.50 0.05 0.05 0.01 0.01 ES Trucks hauling Trucks hauling material from Stockpile 12 to Stockpile 11 to cold feed bins 0.86 0.22 0,02 0.09 3.55 9.05 0.91 0.91 38.88 0.94 0.24 0.99 0.02 3.89 0.99 9.91 EE3 lb/hr lb/hr b/hr lb/hr Phr lb/hr tpy tpy ťр ţρ tρ ţά PM2.5 Emission Rate (Uncontrolled):
PM2.5 Emission Rate (Uncontrolled):
PM2.5 Controlled Emission Rate:
PM3.5 Controlled Emission Rate:
PM3.5 Controlled Emission Rate: (Uncontrolled): PM Controlled Emission PM Controlled Emissio (Uncontrolled):
PM10 Emission Rate
(Uncontrolled):
PM 10 Controlled PM10 Emission Rate PM Emission Rate (Uncontrolled): PM Emission Rate Source Description: Emission Rate: PM 10 Controlled Emission Rate: Plant: Source ID:

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO₂), nitrous oxide (N₂O), methane (CH₄), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Calculating GHG Emissions:

- 1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO₂e emissions from your facility.
- 2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO₂e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
- 3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
- 4. Report GHG mass and GHG CO₂e emissions in Table 2-P of this application. Emissions are reported in short tons per year and represent each emission unit's Potential to Emit (PTE).
- 5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
- 6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following 🛽 By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at http://www.epa.gov/ttn/chief/ap42/index.html
- EPA's Internet emission factor database WebFIRE at http://cfpub.epa.gov/webfire/
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at http://www.epa.gov/nsr/clean-air-actpermitting-greenhouse-gases:

Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO₂ over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. (20.2.70.7 NMAC, 20.2.74.7 NMAC). You may also find GHGs defined in 40 CFR 86.1818-12(a).

Metric to Short Ton Conversion:

Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.

1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

Saved Date: 12/20/2024

Section 7

Information Used to Determine Emissions

Information Used to Determine Emissions shall include the following:

	If manufacturer data are used, include specifications for emissions units and control equipment, including control
	efficiencies specifications and sufficient engineering data for verification of control equipment operation, including
	design drawings, test reports, and design parameters that affect normal operation.
	If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than
	the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
\boxtimes	If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a
	copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
	If an older version of AP-42 is used, include a complete copy of the section.
	If an EPA document or other material is referenced, include a complete copy.
	Fuel specifications sheet.
	If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

The following sources for emission factors are used in the calculations.

- AP-42 Section 1.4 Natural Gas Combustion Table 1.4-1, Table 1.4-2, Table 1.4-3, and Table 1.4-4
- AP-42 Section 11.1 Hot Mix Asphalt Plants (version 03/2004) Table 11.1-3, Table 11.1-7, Table 11.1-8, Table 11.1-10,
 Table 11.1-11, and Table 11.1-14
- AP-42 Section 11.12 Concrete Batching (version 06/2006)Table 11.12-2
- AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing (version 08/2004) Table 11.19.2-2 and Note b: High Controlled Moisture Content
- AP-42 Section 13.2.1 Paved Roads (version 01/2011) Table 13.2.1-1 and Table 13.2.1-3
- AP-42 Section 13.2.2 Unpaved Roads (version 11/2006) Table 13.2.2-1 and Table 13.2.2-2
- AP-42 Section 13.2.4 Aggregate Handling and Storage Piles (version 11/2006)

The page extracts from AP-42 sections are provided next.

EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION² Table 1.4-1.

E	Z	NOxb	CO	
Combustor 1 ype (MMBtu/hr Heat Input) [SCC]	Emission Factor (lb/10° scf)	Emission Factor Rating	Emission Factor (1b/10 ⁶ scf)	Emission Factor Rating
Large Wall-Fired Boilers				
[1-01-006-01, 1-02-006-01, 1-03-006-01]				
Uncontrolled (Pre-NSPS) ^c	280	Α	84	В
Uncontrolled (Post-NSPS) ^c	190	A	84	В
Controlled - Low NO _x burners	140	A	84	В
Controlled - Flue gas recirculation	100	D	84	В
Small Boilers				
[1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03]				
Uncontrolled	100	В	84	В
Controlled - Low NO _x burners	50	D	84	В
Controlled - Low NO _x burners/Flue gas recirculation	32	၁	84	В
Tangential-Fired Boilers (All Sizes) [1-01-006-04]				
Uncontrolled	170	A	24	C
Controlled - Flue gas recirculation	9/	D	86	D
Residential Furnaces (<0.3)				
Uncontrolled	94	В	40	В

Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from 1b/10 ° scf to kg/10° m³, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from 1b/10 ° scf to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable. Expressed as NO₂. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO x emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO x emission factor. NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after June 19, 1984.

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION²

Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
CO_2 ^b	120,000	A
Lead	0.0005	D
N₂O (Uncontrolled)	2.2	E
N ₂ O (Controlled-low-NO _X burner)	0.64	E
PM (Total) ^c	7.6	D
PM (Condensable) ^c	5.7	D °
PM (Filterable) ^c	1.9	В
SO ₂ d	0.6	A
TOC	11	В
Methane	2.3	В
VOC	5.5	С

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

Based on approximately 100% conversion of fuel carbon to CO_2 . $CO_2[lb/10^6 \text{ scf}] = (3.67)$ (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO_2 , C = carbon content of fuel by weight

(0.76), and D = density of fuel, 4.2×10^4 lb/ 10^6 scf.

^c All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

d Based on 100% conversion of fuel sulfur to SO₂.

Assumes sulfur content is natural gas of 2,000 grains/10⁶ scf. The SO₂ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO₂ emission factor by the ratio of the site-specific sulfur content (grains/10⁶ scf) to 2,000 grains/10⁶ scf.

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION $^{\rm a}$

CAS No.	Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
91-57-6	2-Methylnaphthalene ^{b, c}	2.4E-05	D
56-49-5	3-Methylcholanthrene ^{b, c}	<1.8E-06	Е
	7,12- Dimethylbenz(a)anthracene ^{b,c}	<1.6E-05	Е
83-32-9	Acenaphthene ^{b,c}	<1.8E-06	Е
203-96-8	Acenaphthylene ^{b,c}	<1.8E-06	Е
120-12-7	Anthracene ^{b,c}	<2.4E-06	Е
56-55-3	Benz(a)anthracene ^{b,c}	<1.8E-06	Е
71-43-2	Benzene ^b	2.1E-03	В
50-32-8	Benzo(a)pyrene ^{b,c}	<1.2E-06	Е
205-99-2	Benzo(b)fluorantheneb,c	<1.8E-06	Е
191-24-2	Benzo(g,h,i)peryleneb,c	<1.2E-06	Е
207-08-9	Benzo(k)fluorantheneb,c	<1.8E-06	Е
106-97-8	Butane	2.1E+00	Е
218-01-9	Chrysene ^{b,c}	<1.8E-06	Е
53-70-3	Dibenzo(a,h)anthraceneb,c	<1.2E-06	Е
25321-22- 6	Dichlorobenzene ^b	1.2E-03	E
74-84-0	Ethane	3.1E+00	E
206-44-0	Fluoranthene ^{b,c}	3.0E-06	Е
86-73-7	Fluorene ^{b,c}	2.8E-06	Е
50-00-0	Formaldehyde ^b	7.5E-02	В
110-54-3	Hexane ^b	1.8E+00	Е
193-39-5	Indeno(1,2,3-cd)pyrene ^{b,c}	<1.8E-06	Е
91-20-3	Naphthalene ^b	6.1E-04	Е
109-66-0	Pentane	2.6E+00	Е
85-01-8	Phenanathrene ^{b,c}	1.7E-05	D
74-98-6	Propane	1.6E+00	Е

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION (Continued)

CAS No.	Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
129-00-0	Pyrene ^{b, g}	5.0E-06	Е
108-88-3	Toluene ^b	3.4E-03	C

- ^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from 1b/10⁶ scf to lb/MMBtu, divide by 1,020. Emission Factors preceded with a less-than symbol are based on method detection limits.
- ^b Hazardous Air Pollutant (HAP) as defined by Section 112(b) of the Clean Air Act.
- ^c HAP because it is Polycyclic Organic Matter (POM). POM is a HAP as defined by Section 112(b) of the Clean Air Act.
- ^d The sum of individual organic compounds may exceed the VOC and TOC emission factors due to differences in test methods and the availability of test data for each pollutant.

TABLE 1.4-4. EMISSION FACTORS FOR METALS FROM NATURAL GAS COMBUSTION^a

CAS No.	Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
7440-38-2	Arsenic ^b	2.0E-04	E
7440-39-3	Barium	4.4E-03	D
7440-41-7	Beryllium ^b	<1.2E-05	E
7440-43-9	Cadmium ^b	1.1E-03	D
7440-47-3	Chromium ^b	1.4E-03	D
7440-48-4	Cobalt ^b	8.4E-05	D
7440-50-8	Copper	8.5E-04	C
7439-96-5	Manganeseb	3.8E-04	D
7439-97-6	Mercury ^b	2.6E-04	D
7439-98-7	Molybdenum	1.1E-03	D
7440-02-0	Nickel ^b	2.1E-03	C
7782-49-2	Selenium ^b	<2.4E-05	E
7440-62-2	Vanadium	2.3E-03	D
7440-66-6	Zinc	2.9E-02	Е

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. Emission factors preceded by a less-than symbol are based on method detection limits. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by l6. To convert from lb/10⁶ scf to 1b/MMBtu, divide by 1,020.

b Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.

Factors are 1b/ton of product. SCC = Source Classification Code. ND = no data. NA = not applicable. To convert from 1b/ton to kg/Mg, multiply by 0.5.

Condensable PM is that PM collected using an EPA Method 202, Method 5 (analysis of "back-half" or impingers), or equivalent sampling

Particle size data from Reference 23 were used in conjunction with the filterable PM emission factors shown. Filterable PM is that PM collected on or before the filter of an EPA Method 5 (or equivalent) sampling train.

Total PM is the sum of filterable PM, condensable inorganic PM, and condensable organic PM.

Total PM-10 is the sum of filterable PM-10, condensable inorganic PM, and condensable organic PM.

Drum mix dryer fired with natural gas, propane, fuel oil, and waste oil. The data indicate that fuel type does not significantly effect PM

emissions.

References 31, 36-38, 340.

Because no data are available for uncontrolled condensable inorganic PM, the emission factor is assumed to be equal to the maximum controlled condensable inorganic PM emission factor.

References 36-37.

Average of data from 36 facilities. Range: 0.0036 to 0.097 lb/ton. Median: 0.020 lb/ton. Standard Reference 1, Table 4-14. deviation: 0.022 lb/ton.

Average of data from 30 facilities. Range: 0.0012 to 0.027 lb/ton. Median: 0.0051 lb/ton. Standard Reference 1, Table 4-14.

Average of data from 41 facilities. Range: 0.00035 to 0.074 lb/ton. Median: 0.0046 lb/ton. Standard Reference 1, Table 4-14. deviation: 0.0063 lb/ton deviation: 0.016 lb/ton.

Average of data from 155 facilities. Range: 0.00089 to 0.14 lb/ton. Median: 0.010 lb/ton. Standard Reference 1, Table 4-14. deviation: 0.017 lb/ton.

Table 11.1-7. EMISSION FACTORS FOR CO, CO₂, NO₈, AND SO₂ FROM DRUM MIX HOT MIX ASPHALT PLANTS⁸

				200				
		EMISSION		EMISSION		EMISSION		EMISSION
		FACTOR		FACTOR		FACTOR		FACTOR
Process	ÇO _p	RATING	$CO_2^{\mathfrak{c}}$	RATING	NO_x	RATING	SO_2^c	RATING
Natural gas-fired dryer (SCC 3-05-002-55,-56,-57)	0.13	В	33 ^d	A	0.026°	D	0.0034	D
No. 2 fuel oil-fired dryer (SCC 3-05-002-58,-59,-60)	0.13	В	334	A	0.055	Ü	0.011 ^h	Э
Waste oil-fired dryer (SCC 3-05-002-61,-62,-63)	0.13	В	33 ^d	A	0.055	C	0.058	В
Coal-fired dryer ^k (SCC 3-05-002-98)	ND	NA	33 ^d	А	ND	NA	0.19 ^m	Ħ

Emission factor units are 1b per ton of HMA produced. SCC = Source Classification Code. ND = no data available. NA = not applicable. To convert from 1b/ton to kg/Mg, multiply by 0.5. :0

2 fuel oil, and No. 6 fuel oil were combined to develop a single emission factor because the magnitude of emissions was similar for dryers fired design, periodic evaluation of burner operation, and appropriate maintenance can reduce CO emissions. Data for dryers firing natural gas, No. operations without scrutiny of the burner design, operation, and maintenance. Information is available that indicates that attention to burner References 25, 44, 48, 50, 149, 154, 197, 214, 229, 254, 339-342, 344, 346, 347, 390. The CO emission factors represent normal plant with these fuels. ٩

similar from dryers firing any of the various fuels). Fifty percent of the fuel-bound sulfur, up to a maximum (as SO₂) of 0.1 lb/ton of product, presented in AP-42 Chapter 1. The CO₂ emission factors are an average of all available data, regardless of the dryer fuel (emissions were Emissions of CO₂ and SO₂ can also be estimated based on fuel usage and the fuel combustion emission factors (for the appropriate fuel) is expected to be retained in the product, with the remainder emitted as SO₂.

Reference 1, Table 4-15. Average of data from 180 facilities. Range: 2.6 to 96 lb/ton. Median: 31 lb/ton. Standard deviation: 13 lb/ton.

References 44-45, 48, 209, 341, 342.

References 44-45, 48.

^E References 25, 50, 153, 214, 229, 344, 346, 347, 352-354.

¹ References 50, 119, 255, 340

^j References 25, 299, 300, 339, 345, 351, 371-377, 379, 380, 386-388.

Dryer fired with coal and supplemental natural gas or fuel oil.

References 88, 108, 189-190.

11.1-17

Table 11.1-8. EMISSION FACTORS FOR TOC, METHANE, VOC, AND HC1 FROM DRUM MIX HOT MIX ASPHALT PLANTS^a

Process	TOC ^b	EMISSION FACTOR RATING	CH ₄ ^e	EMISSION FACTOR RATING	VOC ^d	EMISSION FACTOR RATING	HC1°	EMISSION FACTOR RATING
Natural gas-fired dryer (SCC 3-05-002-55, -56,-57)	0.044 ^f	В	0.012	С	0.032	С	ND	NA
No. 2 fuel oil-fired dryer (SCC 3-05-002-58, -59,-60)	0.044 ^r	В	0.012	С	0.032	С	ND	NA
Waste oil-fired dryer (SCC 3-05-002-61, -62,-63)	0.044 ^r	Е	0.012	С	0.032	E	0.00021	D

Emission factor units are lb per ton of HMA produced. SCC = Source Classification Code. ND = no data available. NA = not applicable. To convert from lb/ton to kg/Mg, multiply by 0.5.

TOC equals total hydrocarbons as propane as measured with an EPA Method 25A or equivalent sampling train plus formaldehyde.

^c References 25, 44-45, 48, 50, 339-340, 355. Factor includes data from natural gas-, No. 2 fuel oil, and waste oil-fired dryers. Methane measured with an EPA Method 18 or equivalent sampling train.

The VOC emission factors are equal to the TOC factors minus the sum of the methane emission factors and the emission factors for compounds with negligible photochemical reactivity shown in Table 11.1-10; differences in values reported are due to rounding.

^c References 348, 374, 376, 379, 380.

References 25, 44-45, 48, 50, 149, 153-154, 209-212, 214, 241, 242, 339-340, 355.

Table 11.1-10. EMISSION FACTORS FOR ORGANIC POLLUTANT EMISSIONS FROM DRUM MIX HOT MIX ASPHALT PLANTS^a

		Pollutant	Emission	Emission	
İ			Factor,	Factor	
Process	CASRN	Name	lb/ton	Rating	Ref. No.
Natural gas-fired	Non-P	AH hazardous air pollutants ^c			
dryer with fabric filter ^b (SCC 3-05-002-55,	71-43-2	Benzene ^d	0.00039	A	25,44,45,50, 341, 342, 344-351, 373, 376, 377, 383, 384
-56,-57)	100-41-4	Ethylbenzene	0.00024	D	25,44,45
	50-00-0	Formaldehyde ^c	0.0031	A	25,35,44,45,50, 339- 344, 347-349, 371- 373, 384, 388
	110-54-3	Hexane	0.00092	Е	339-340
	540-84-1	Isooctane (2,2,4-trimethylpentane)	4.0x10 ⁻⁵	Е	339-340
	71-55-6	Methyl chloroform ^f	4.8x10 ⁻⁵	Е	35
	108-88-3	Toluene	0.00015	D	35,44,45
	1330-20-7	Xylene	0.00020	D	25,44,45
		Total non-PAH HAPs	0.0051		
		PAH HAPs			
	91-57-6	2-Methylnaphthalene ⁸	7.4x10 ⁻⁵	D	44,45,48
	83-32-9	Acenaphthene	1.4x10 ⁻⁶	E	48
	208-96-8	Acenaphthylenes	8.6x10 ⁻⁶	D	35,45,48
	120-12-7	Anthraceneg	2.2x10 ⁻⁷	Е	35,48
	56-55-3	Benzo(a)anthracenes	2.1x10 ⁻⁷	Е	48
	50-32-8	Benzo(a)pyreneg	9.8x10 ⁻⁹	Е	48
	205-99-2	Benzo(b)fluoranthenes	1.0x10 ⁻⁷	Е	35,48
	192-97-2	Benzo(e)pyreneg	1.1x10 ⁻⁷	Е	48
	191-24-2	Benzo(g,h,i)peryleneg	4.0x10 ⁻⁸	Е	48
	207-08-9	Benzo(k)fluorantheneg	4.1x10 ⁻⁸	Е	35,48
	218-01-9	Chrysene ^g	1.8x10 ⁻⁷	Е	35,48
	206-44-0	Fluoranthene ⁸	6.1x10 ⁻⁷	D	35,45,48
	86-73-7	Fluorene ^g	3.8x10 ⁻⁶	D	35,45,48,163
	193-39-5	Indeno(1,2,3-cd)pyreneg	7.0x10 ⁻⁹	Е	48
	91-20-3	Naphthalene ^g	9.0x10 ⁻⁵	D	35,44,45,48,163
	198-55-0	Peryleneg	8.8x10 ⁻⁹	E	48
	85-01-8	Phenanthrene ^g	7.6x10 ⁻⁶	D	35,44,45,48,163
	129-00-0	Pyrene ^g	5.4x10 ⁻⁷	D	45,48
		Total PAH HAPs	0.00019		

Table 11.1-11. EMISSION FACTORS FOR METAL EMISSIONS FROM BATCH MIX HOT MIX ASPHALT PLANTS^a

Process	Pollutant	Emission Factor, lb/ton	Emission Factor Rating	Reference Numbers
Dryer, hot screens, and mixer ^b (SCC 3-05-002-45,-46,-47)	Arsenic ^c Barium Beryllium ^c Cadmium ^c Chromium ^c Hexavalent chromium ^c Copper Lead ^c Manganese ^c Mercury ^c Nickel ^c Selenium ^c Zinc	4.6x10 ⁻⁷ 1.5x10 ⁻⁶ 1.5x10 ⁻⁷ 6.1x10 ⁻⁷ 5.7x10 ⁻⁷ 4.8x10 ⁻⁸ 2.8x10 ⁻⁶ 8.9x10 ⁻⁷ 6.9x10 ⁻⁶ 4.1x10 ⁻⁷ 3.0x10 ⁻⁶ 4.9x10 ⁻⁷ 6.8x10 ⁻⁶	D E D D E D D E D	34, 40, 226 24 34, 226 24, 34, 226 24, 34, 226 34, 226 24, 34, 226 24, 34, 226 34, 226 24, 34, 226 34, 226 24, 34, 226 24, 34, 226

^a Emission factor units are lb/ton of HMA produced. Emissions controlled by a fabric filter. SCC = Source Classification Code. To convert from lb/ton to kg/Mg, multiply by 0.5.

b Natural gas-, propane-, No. 2 fuel oil-, or waste oil-/drain oil-/No. 6 fuel oil-fired dryer. For waste oil-/drain oil-/No. 6 fuel oil-fired dryer, use a lead emission factor of $1.0x10^{-5}$ lb/ton (References 177 and 321, Emission factor rating: E) in lieu of the emission factor shown.

^c Arsenic, beryllium, cadmium, chromium, hexavalent chromium, lead, manganese, mercury, nickel, and selenium are HAPs as defined in the 1990 CAAA.

Table 11.1-14. PREDICTIVE EMISSION FACTOR EQUATIONS FOR LOAD-OUT AND SILO FILLING OPERATIONS^a

EMISSION FACTOR RATING: C

Source	Pollutant	Equation
Drum mix or batch mix plant load-out (SCC 3-05-002-14)	Total PM ^b Organic PM ^c TOC ^d	$EF = 0.000181 + 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$ $EF = 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$ $EF = 0.0172(-V)e^{((0.0251)(T + 460) - 20.43)}$
	CO	$EF = 0.00558(-V)e^{((0.0251)(T+460)-20.43)}$
Silo filling (SCC 3-05-002-13)	Total PM ^b Organic PM ^c	$EF = 0.000332 + 0.00105(-V)e^{((0.0251)(T + 460) - 20.43)}$ $EF = 0.00105(-V)e^{((0.0251)(T + 460) - 20.43)}$
	TOC ^d	EF = $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$ EF = $0.00488(-V)e^{((0.0251)(T+460)-20.43)}$

Emission factor units are lb/ton of HMA produced. SCC = Source Classification Code. To convert from lb/ton to kg/Mg, multiply by 0.5. EF = emission factor; V = asphalt volatility, as determined by ASTM Method D2872-88 "Effects of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test - RTFOT)," where a 0.5 percent loss-on-heating is expressed as "-0.5." Regional- or site-specific data for asphalt volatility should be used, whenever possible; otherwise, a default value of -0.5 should be used for V in these equations. T = HMA mix temperature in °F. Site-specific temperature data should be used, whenever possible; otherwise a default temperature of 325°F can be used. Reference 1, Tables 4-27 through 4-31, 4-34 through 4-36, and 4-38 through 4-41.

^b Total PM, as measured by EPA Method 315 (EPA Method 5 plus the extractable organic particulate from the impingers). Total PM is assumed to be predominantly PM-2.5 since emissions consist of condensed vapors.

^c Extractable organic PM, as measured by EPA Method 315 (methylene chloride extract of EPA Method 5 particulate plus methylene chloride extract of impinger particulate).

TOC as propane, as measured with an EPA Method 25A sampling train or equivalent sampling train.

TABLE 11.12-2 (ENGLISH UNITS)
EMISSION FACTORS FOR CONCRETE BATCHING ^a

Source (SCC)		Uncontrolled	tolled			Con	Controlled	
	Total PM	Emission Factor Rating	Total PM ₁₀	Emission Factor Rating	Total PM	Emission Factor Rating	Total PM ₁₀	Emission Factor Rating
Aggregate transfer ^b (3-05-011-04,-21,23)	0.0069	Q	0.0033	Q	ND		ND	
Sand transfer b (3-05-011-05,22,24)	0.0021	Q	0.00099	Q	ND		N	
Cement unloading to elevated storage silo (pneumatic) ^c (3-05-011-07)	0.73	Ш	0.47	ப	0.00099	D	0.00034	D
Cement supplement unloading to elevated storage silo (pneumatic) ^d (3-05-011-17)	3.14	Щ	1.10	Щ	0.0089	D	0.0049	闰
Weigh hopper loading ° (3-05-011-08)	0.0048	D	0.0028	Q	ND		ND	
Mixer loading (central mix) ^f (3-05-011-09)	0.572 or Eqn. 11.12-1	В	0.156 or Eqn. 11.12-1	В	0.0184 or Eqn. 11.12-1	В	0.0055 or Eqn. 11.12-1	В
Truck loading (truck mix) ^g (3-05-011-10)	1.118	В	0.310	В	0.098 or Eqn. 11.12-1	В	0.0263 or Eqn. 11.12-1	В
Vehicle traffic (paved roads)			See AP-42	Section 13	See AP-42 Section 13.2.1, Paved Roads	coads		
Vehicle traffic (unpaved roads)			See AP-42	Section 13.2	See AP-42 Section 13.2.2, Unpaved Roads	Roads		
Wind erosion from aggregate and sand storage piles			See AP-42 Section 13.2.5, Industrial Wind Erosion	ion 13.2.5, I	ndustrial Wi	nd Erosion		

11.12-6

Table 11.19.2-2 (English Units). EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATIONS (lb/Ton)^a

Source ^b	Total	EMISSION	Total	EMISSION	Total	EMISSION
	Particulate	FACTOR	PM-10	FACTOR	PM-2.5	FACTOR
	Matter r,s	RATING		RATING		RATING
Primary Crushing	ND		ND ⁿ		ND ⁿ	
(SCC 3-05-020-01)						
Primary Crushing (controlled)	ND		ND ⁿ		NDn	
(SCC 3-05-020-01)					2 17	
Secondary Crushing	ND		ND ⁿ		ND"	Į.
(SCC 3-05-020-02)						
Secondary Crushing (controlled)	ND		ND ⁿ		ND"	
(SCC 3-05-020-02)					2.772.0	
Tertiary Crushing	0.0054^{d}	Е	0.0024°	С	ND"	
(SCC 3-050030-03)					0.000100	E
Tertiary Crushing (controlled)	0.0012^{d}	E	0.00054 ^p	С	0.00010 ^q	E
(SCC 3-05-020-03)					ND	
Fines Crushing	0.0390°	Е	0.0150 ^e	Е	ND	
(SCC 3-05-020-05)					0,000070 ^q	E
Fines Crushing (controlled)	0.0030 ¹	Е	0.0012	Е	0.000070	_ E
(SCC 3-05-020-05)			2 2225		ND	
Screening	0.025°	E	0.0087	C	מא	
(SCC 3-05-020-02, 03)			0.000 TAM	-	0.000050 ^q	E
Screening (controlled)	0.0022 ^d	Е	0.00074 ^m	C	0.000050	E
(SCC 3-05-020-02, 03)			0.050	Е	ND	
Fines Screening	0.30 ^g	Е	0.072 ^g	E	UND	1
(SCC 3-05-020-21)			0.0022 ^g	E	ND	-
Fines Screening (controlled)	0.0036 ^g	Е	0.0022	E	I ND	
(SCC 3-05-020-21)	a coach	E	0.00110 ^h	D	ND	
Conveyor Transfer Point	0.0030 ^h	E	0.00110	J D	NB	
(SCC 3-05-020-06)	0.00014	E	4.6 x 10 ⁻⁵¹	D	1.3 x 10 ^{-5q}	Е
Conveyor Transfer Point (controlled)	0.00014 ¹	E	4.0 X 10		1.5 X 10	
(SCC 3-05-020-06)	NID.		8.0 x 10 ^{-5j}	Е	ND	1
Wet Drilling - Unfragmented Stone	ND		0.0 x 10		1,12	
(SCC 3-05-020-10)	ND		1.6 x 10 ^{-5j}	Е	ND	
Truck Unloading -Fragmented Stone	ND		1.0 x 10	r r	1,2	
(SCC 3-05-020-31)	ND		0.00010 ^k	Е	ND	
Truck Loading - Conveyor, crushed	I ND		0.00010		1.2	
stone (SCC 3-05-020-32)						

- a. Emission factors represent uncontrolled emissions unless noted. Emission factors in lb/Ton of material of throughput. SCC = Source Classification Code. ND = No data.
- b. Controlled sources (with wet suppression) are those that are part of the processing plant that employs current wet suppression technology similar to the study group. The moisture content of the study group without wet suppression systems operating (uncontrolled) ranged from 0.21 to 1.3 percent, and the same facilities operating wet suppression systems (controlled) ranged from 0.55 to 2.88 percent. Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays. Although the moisture content was the only variable measured, other process features may have as much influence on emissions from a given source. Visual observations from each source under normal operating conditions are probably the best indicator of which emission factor is most appropriate. Plants that employ substandard control measures as indicated by visual observations should use the uncontrolled factor with an appropriate control efficiency that best reflects the effectiveness of the controls employed.
- c. References 1, 3, 7, and 8
- d. References 3, 7, and 8

13.2.1.3 Predictive Emission Factor Equations 10,29

The quantity of particulate emissions from resuspension of loose material on the road surface due to vehicle travel on a dry paved road may be estimated using the following empirical expression:

$$E = k (sL)^{0.91} \times (W)^{1.02}$$
 (1)

ere: E = particulate emission factor (having units matching the units of k),

k = particle size multiplier for particle size range and units of interest (see below),

SL = road surface silt loading (grams per square meter) (g/m²), and

W = average weight (tons) of the vehicles traveling the road.

It is important to note that Equation 1 calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, Equation 1 is *not* intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

The particle size multiplier (k) above varies with aerodynamic size range as shown in Table 13.2.1-1. To determine particulate emissions for a specific particle size range, use the appropriate value of k shown in Table 13.2.1-1.

To obtain the total emissions factor, the emissions factors for the exhaust, brake wear and tire wear obtained from either EPA's MOBILE6.2 ²⁷ or most recent MOVES ²⁹ software model should be added to the emissions factor calculated from the empirical equation.

Table 13.2.1-1. PARTICLE SIZE MULTIPLIERS FOR PAVED ROAD EQUATION

Size range ^a	Pa	rticle Size Multiplie	r <mark>k</mark> b
	g/VKT	g/VMT	lb/VMT
PM-2.5°	0.15	0.25	0.00054
PM-10	0.62	1.00	0.0022
PM-15	0.77	1.23	0.0027
PM-30 ^d	3.23	5.24	0.011

^a Refers to airborne particulate matter (PM-x) with an aerodynamic diameter equal to or less than x micrometers.

^b Units shown are grams per vehicle kilometer traveled (g/VKT), grams per vehicle mile traveled (g/VMT), and pounds per vehicle mile traveled (lb/VMT). The multiplier k includes unit conversions to produce emission factors in the units shown for the indicated size range from the mixed units required in Equation 1.

^c The k-factors for PM_{2.5} were based on the average PM_{2.5}:PM₁₀ ratio of test runs in Reference 30.

^d PM-30 is sometimes termed "suspendable particulate" (SP) and is often used as a surrogate for TSP.

Table 13.2.1-3 (Metric And English Units). TYPICAL SILT CONTENT AND LOADING VALUES FOR PAVED ROADS AT INDUSTRIAL FACILITIES ^a

			100011		THE COLUMN THE PROPERTY OF THE		١	Ì	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
					No. of				Silt Loading	img
	No. of	No. Of	No. Of Silt Content (%)	nt (%)	Travel	Total Loading x 10-3	ling x 1	0-3	(g/m^2)	
Industry	Sites	Samples	Range Mean	Mean	Lanes	Range Mean Units ^b	Mean	Units ^b	Range	Mean
Copper smelting	-	3	15.4-21.7	19.0	2	12.9 - 19.5 15.9 kg/km	15.9		188-400	292
						45.8 - 69.2 55.4 lb/mi	55.4	lb/mi		
Iron and steel production	6	48	1.1-35.7 12.5	12.5	2	0.006 - 4.77 0.495 kg/km	0.495		0.09-79	6.7
						0.020 -16.9 1.75 lb/mi	1.75	lb/mi		
Asphalt batching	-	3	2.6 - 4.6	3.3	-	12.1 - 18.0 14.9 kg/km	14.9	kg/km	76-193	120
						43.0 - 64.0 52.8	52.8	lb/mi		
Concrete batching	-	3	5.2 - 6.0	5.5	2	1.4 - 1.8 1.7		kg/km	11-12	12
						5.0 - 6.4 5.9		lb/mi		
Sand and gravel processing		3	6.4 - 7.9	7.1	-	2.8 - 5.5	3.8	kg/km	53-95	70
						9.9 - 19.4 13.3		lb/mi		
Municinal solid waste landfill	2	7		٠	2	T.			1.1-32.0	7.4
Ouarry	-	9		t)	2	Ĭ.ŧ			2.4-14	8.2
Corn wet mills	3	15		1	2	ı			0.05 - 2.9	1.1

^a References 1-2,5-6,11-13. Values represent samples collected from industrial roads. Public road silt loading values are presented in Table-13.2.1-2. Dashes indicate information not available. b Multiply entries by 1000 to obtain stated units; kilograms per kilometer (kg/km) and pounds per mile (lb/mi).

Table 13.2.2-1. TYPICAL SILT CONTENT VALUES OF SURFACE MATERIAL ON INDUSTRIAL UNPAVED ROADS^a

	Road Use Or	Plant	No. Of	Silt Conte	ent (%)
Industry	Surface Material	Sites	Samples	Range	Mean
Copper smelting	Plant road	1	3	16 - 19	17
Iron and steel production	Plant road	19	135	0.2 - 19	6 <mark>.0</mark>
Sand and gravel processing	Plant road	1	3	4.1 - 6.0	4.8
	Material storage area	1	1	- 4	7.1
Stone quarrying and processing	Plant road	2	10	2.4 - 16	10
	Haul road to/from pit	4	20	5.0-15	8.3
Taconite mining and processing	Service road	1	8	2.4 - 7.1	4.3
	Haul road to/from pit	1	12	3.9 - 9.7	5.8
Western surface coal mining	Haul road to/from pit	3	21	2.8 - 18	8.4
	Plant road	2	2	4.9 - 5.3	5.1
	Scraper route	3	10	7.2 - 25	17
	Haul road (freshly graded)	2	5	18 - 29	24
Construction sites	Scraper routes	7	20	0.56-23	8.5
Lumber sawmills	Log yards	2	2	4.8-12	8.4
Municipal solid waste landfills	Disposal routes	4	20	2.2 - 21	6.4

^{*}References 1,5-15.

Table 13.2.2-2. CONSTANTS FOR EQUATIONS 1a AND 1b

	Industri	al Roads (Equ	ation 1a)	Public	Roads (Equati	ion 1b)
Constant	PM-2.5	PM-10	PM-30*	PM-2.5	PM-10	PM-30*
k (lb/VMT)	0.15	1.5	4.9	0.18	1.8	6.0
a	0.9	0.9	0.7	1	1	1
b	0.45	0.45	0.45	**	-	× =
С	T.		-	0.2	0.2	0.3
d		1 2 4	-	0.5	0.5	0.3
Quality Rating	В	В	В	В	В	В

^{*}Assumed equivalent to total suspended particulate matter (TSP)

Table 13.2.2-2 also contains the quality ratings for the various size-specific versions of Equation 1a and 1b. The equation retains the assigned quality rating, if applied within the ranges of source conditions, shown in Table 13.2.2-3, that were tested in developing the equation:

Table 13.2.2-3. RANGE OF SOURCE CONDITIONS USED IN DEVELOPING EQUATION 1a AND 1b

			Vehicle ight		Vehicle eed	Mean	Surface Moisture
Emission Factor	Surface Silt Content, %	Mg	ton	km/hr	mph	No. of Wheels	Content, %
Industrial Roads (Equation 1a)	1.8-25.2	1.8-260	2-290	8-69	5-43	4-17ª	0.03-13
Public Roads (Equation 1b)	1.8-35	1.4-2.7	1.5-3	16-88	10-55	4-4.8	0.03-13

^a See discussion in text.

As noted earlier, the models presented as Equations 1a and 1b were developed from tests of traffic on unpaved surfaces. Unpaved roads have a hard, generally nonporous surface that usually dries quickly after a rainfall or watering, because of traffic-enhanced natural evaporation. (Factors influencing how fast a road dries are discussed in Section 13.2.2.3, below.) The quality ratings given above pertain to the mid-range of the measured source conditions for the equation. A higher mean vehicle weight and a higher than normal traffic rate may be justified when performing a worst-case analysis of emissions from unpaved roads.

The emission factors for the exhaust, brake wear and tire wear of a 1980's vehicle fleet (C) was obtained from EPA's MOBILE6.2 model 23 . The emission factor also varies with aerodynamic size range

[&]quot;-" = not used in the emission factor equation

The quantity of particulate emissions generated by either type of drop operation, per kilogram (kg) (ton) of material transferred, may be estimated, with a rating of A, using the following empirical expression:¹¹

E = k(0.0016)
$$\frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$
 (kg/megagram [Mg])

E = k(0.0032)
$$\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$
 (pound [lb]/ton)

where:

E = emission factor

k = particle size multiplier (dimensionless)

U = mean wind speed, meters per second (m/s) (miles per hour [mph])

M = material moisture content (%)

The particle size multiplier in the equation, k, varies with aerodynamic particle size range, as follows:

	Aerodynamic Part	icle Size Multiplier (k) For Equation 1	
< 30 μm	< 15 μm	< 10 μm	< 5 μm	< 2.5 μm
0.74	0.48	0.35	0.20	0.053ª

^a Multiplier for $< 2.5 \mu m$ taken from Reference 14.

The equation retains the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equation, as follows. Note that silt content is included, even though silt content does not appear as a correction parameter in the equation. While it is reasonable to expect that silt content and emission factors are interrelated, no significant correlation between the 2 was found during the derivation of the equation, probably because most tests with high silt contents were conducted under lower winds, and vice versa. It is recommended that estimates from the equation be reduced 1 quality rating level if the silt content used in a particular application falls outside the range given:

	Ranges Of Source Con	ditions For Equation 1	
Silt Content	Moisture Content	Wind S	Speed
Silt Content (%)	(%)	m/s	mph
0.44 - 19	0.25 - 4.8	0.6 - 6.7	1.3 - 15

To retain the quality rating of the equation when it is applied to a specific facility, reliable correction parameters must be determined for specific sources of interest. The field and laboratory procedures for aggregate sampling are given in Reference 3. In the event that site-specific values for

13.2.4-4

(1)

Saved Date: 12/20/2024

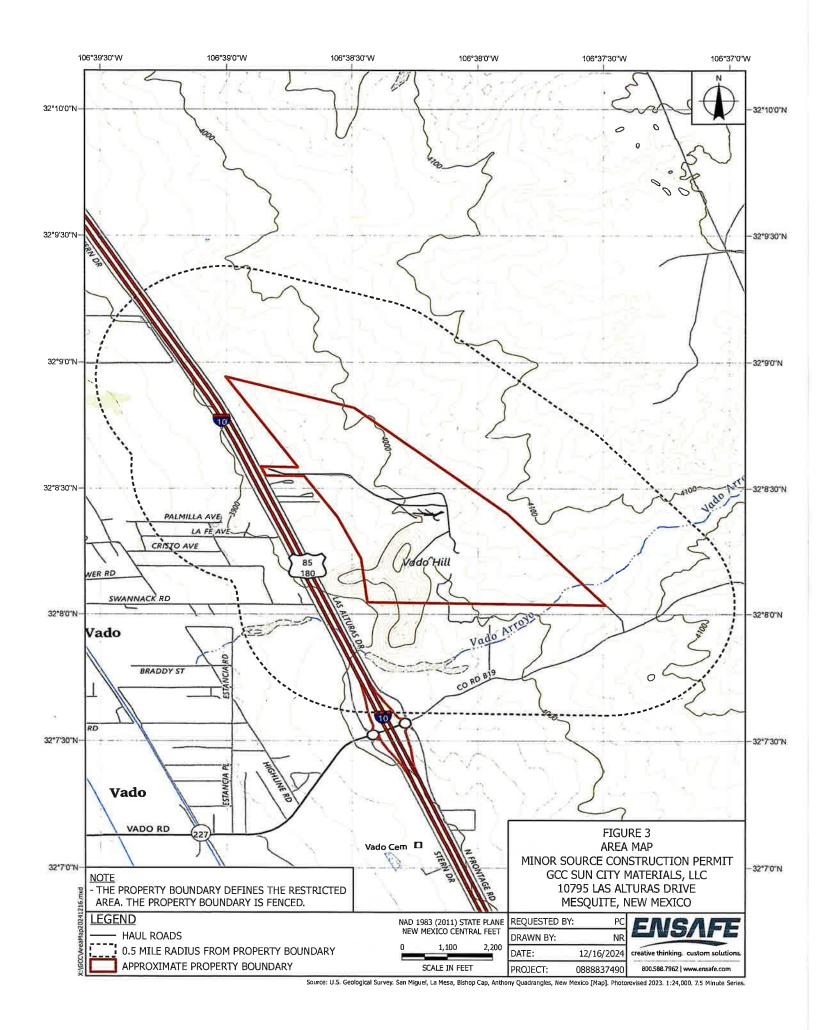
Section 8

Map(s)

<u>A map</u> such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

A map is provided as Figure 3 in the following page.



Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC) (This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

× I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

New Permit and Significant Permit Revision public notices must include all items in this list.

Technical Revision public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

- 1. × A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
- 2. × A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g. post office, library, grocery, etc.)
- 3. × A copy of the property tax record (20.2.72.203.B NMAC).
- 4. × A sample of the letters sent to the owners of record.
- 5. × A sample of the letters sent to counties, municipalities, and Indian tribes.
- 6. × A sample of the public notice posted and a verification of the local postings.
- 7. × A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
- 8. × A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
- 9. × A copy of the <u>classified or legal</u> ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
- 10. × A copy of the <u>display</u> ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
- 11. × A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

All Public Notice Documentation can be found on the following pages.





	U.S. Postal Service [™] CERTIFIED MAIL [®] RECEIPT
85	Domestic Mail Only
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ru	
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589	Dominiquez, Blanca
	3 B 30x 325 Mesquite, NM 88048
_	PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
	DS Form 3800, January 2023 PSN 7530-2535

79	U.S. Postal Service [™] CERTIFIED MAIL [®] RECEIPT Domestic Mail Only
밁	For delivery information, visit our website at www.usps.com
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L)	955 20174 1220
6	City, State 2172" PASO, TX 79936
	PS Form 3800, January 2023 PSN 7530-02-000-9037 See Reverse for Instructions

For delivery infor	mation, visit ou	ır website at v	www.usps.com
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| Return Receipt (olectronic)
| Certified Mail Restricted Delivery
| Adult Signature Required
| Adult Signature Restricted Delivery \$
| Postage Ш 238 Postmerk Here 5270 DEC Postage 0770 10 Total Postage and Fees Sent To an uel A. Janchez Streetwood Hopero Botto mm 153 12d. Cinfestal Botto N. Motel Blud. Cinfestal Botto N. Motel Blud. PS Form 3800, January 2023 1957 1550 0201000013. See Reverse for Instructions 9589

GCC Sun City Materials, LLC. Vado Site

A list of the public places where the public notice has been posted is as follows:

GCC Vado Facility 10795 Las Alturas Dr. Mesquite, New Mexico 88048

Mesquite Post Office 295 Highway 228 Mesquite, New Mexico 88048

Valero Truck Stop 16320 Stern Dr. #7298 Vado, New Mexico 88072

Vado Elementary 330 Holguin Road Vado, New Mexico 88072

Doña Ana Assessor

UNITED STATES OF **AMERICA**

Account: R1702853

Acres: 45.300

Parcel: 4-014-146-490-121

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

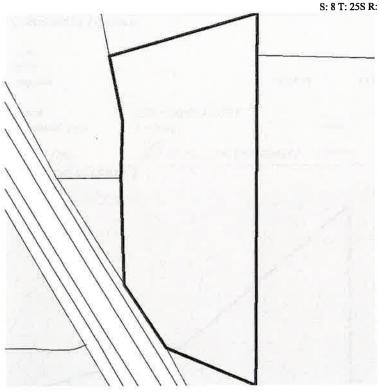
1800 MARQUESS LAS CRUCES, NM 88005-3371

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 8 T: 25S R: 3E



Land Occurrence 1

Property Code

9200 - EXEMPT NON-RESIDENTIAL LAND

Electricity

OE - OVER-ELECTRC

Measure

PA - PER-ACRE

Street Code

A - ASPHALT

Topography Code

R - ROLLING

Acres

45.3

Zoning

REM - REMOTE-MESA

SubArea Acres

Total

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Exempt Land	\$9,060	\$3,020
Actual (2024)	\$9,060	
Primary Taxable		\$3,020
Exempt		(\$3,020)
Adjusted Toyoble Total		\$0

Doña Ana Assessor

UNITED STATES OF AMERICA

Account: R1704077

Acres: 360.070

Parcel: 4-015-146-270-154

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

1800 MARQUESS

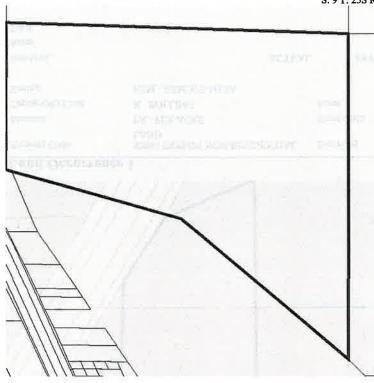
LAS CRUCES, NM 88005-3371

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 9 T: 25S R: 3E NHF & NE PT OF SEQTR



Land Occurrence 1

Property Code

9200 - EXEMPT NON-RESIDENTIAL LAND

Measure

PA - PER-ACRE

Topography Code

L - LEVEL

Acres

360.07

Zoning

REM - REMOTE-MESA

SubArea Acres

Total

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Exempt Land	\$72,014	\$24,005
Actual (2024)	\$72,014	
Primary Taxable		\$24,005
Exempt		(\$24,005)
Adjusted Taxable Total		\$0

Doña Ana Assessor

UNITED STATES OF AMERICA

Account: R1705125

Acres: 640.000

Parcel: 4-016-146-264-263

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

1800 MARQUESS

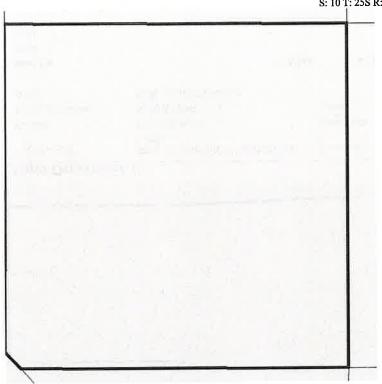
LAS CRUCES, NM 88005-3371

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 10 T: 25S R: 3E



Land Occurrence 1

Property Code

9200 - EXEMPT NON-RESIDENTIAL LAND

Measure

PA - PER-ACRE

Topography Code

R - ROLLING

Acres

640

SQFT

27878400

Zoning

ACTUAL

REM - REMOTE-MESA

SubArea Acres

Sq Ft Totál

Exempt

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

 Type
 Actual
 Assessed

 Exempt Land
 \$128,000
 \$42,667

 Actual (2024)
 \$128,000

Actual (2024)
Primary Taxable

\$42,667

Adjusted Taxable Total

(\$42,667)

\$0

Doña Ana Assessor

UNITED STATES OF **AMERICA**

Account: R1705126

Acres: 525.680

Parcel: 4-016-147-320-230

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

1800 MARQUESS

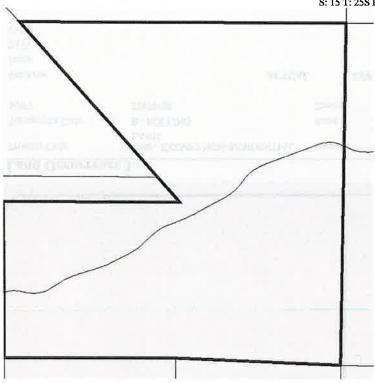
LAS CRUCES, NM 88005-3371

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 15 T: 25S R: 3E NEQTRSEQTR PT SWQTR PT NWQT



Land Occurrence 1

Property Code

9200 - EXEMPT NON-RESIDENTIAL LAND

Electricity

E - ELECTRIC

Measure

PA - PER-ACRE

Street Code

A - ASPHALT

Topography Code Zoning

R - ROLLING

Acres

525.68

Total

REM - REMOTE-MESA

SubArea Acres

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Exempt Land	\$105,136	\$35,045
Actual (2024)	\$105,136	
Primary Taxable		\$35,045
Exempt		(\$35,045)
Adjusted Taxable Total		\$0

Doña Ana Assessor

GUILLEN DANIEL S

4007 MISSION BELL LAS CRUCES, NM 88011-9612

Account: R1704111

Tax Area: 16OUT_R - 16OUT_R

Acres: 52.690

Parcel: 4-015-147-368-262

Situs Address:

1301 EL PEDREGAL RD #1-16

Mesquite, 88048

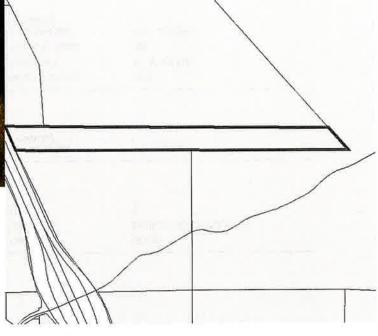
Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10





Land Occurrence 1

Acres Total

0100 - RESIDENTIAL LAND Property Code

Gas P - PROPANE Sewer Type ST - SEPTIC-TANK

Topography Code L - LEVEL Electricity Measure Street Code

Bedrooms

Condition

Acres

OE - OVER-ELECTRC PA - PER-ACRE D - DIRT

52.69

4

FAIR

DM - MOBILE HOME PARK Zoning

SubArea

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Residential Occurrence 1

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built Property Code CN - CONVENTIONAL Architectural Style Air Conditioning E - EVAP-COOLER

Baths 2 PS - PRNCPL-SNGLE **Building Type**

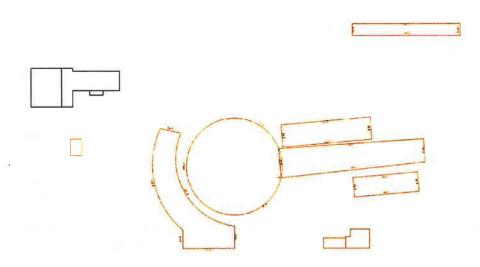
P - PROPANE A - AVERAGE Heating Fuel Construction Quality Roof Cover PR - PR-ROLL FC - FORCED-CIRCU Heating Type Stories 1.0

Roof Structure F-FLAT 100 Exterior Wall AS - ADOBE-STUCOD Percent Interior Wall SR - SHEETROCK

HEATED FOOTPRINT **EFFECTIVE** ACTUAL SubArea 2418.0 2418.0 2418.0 2418.0 GLA1 - First Floor 108.0 108.0 108.0 OP - Open Porch 2132.0 2132.0 STG - Attached 2132.0 Storage

Doña Ana Assessor

Residential Occurrence 1



Residential Occurrence 2

0120 - RESIDENTIAL IMPROVEMENT Property Code

Construction Quality

P-POOR

Condition

GOOD

Percent Complete

100

Description

MOBILE HOME HOOKUPS

Units

Commercial/Ag Occurrence 1

Property Code

0120 - RESIDENTIAL IMPROVEMENT

Calculated MS Occupancy

340 - Market

Commercial/Ag Occurrence 2

Property Code

0120 - RESIDENTIAL IMPROVEMENT

Actual Year Built

1977

Architectural Style

0 - MISCELANEOUS

Condition

A - AVERAGE

Foundation

Percent Complete

100

Description

TOOL SHED

Calculated MS Occupancy

456 - Tool Shed

22.0'

AG #2 TOOL SHED 330.0 sf

Doña Ana Assessor

Commercial/Ag Occurrence 3



Commercial/Ag Occurrence 4

Property Code

Foundation

Description

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

Architectural Style

0 - MISCELANEOUS

Y

FARM UTILITY SHELTER

Percent Complete Calculated MS Occupancy

Condition

1990

A - AVERAGE

100

565 - Farm Utility Shelter



Commercial/Ag Occurrence 5

Property Code Architectural Style 0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

0 - MISCELANEOUS

Condition

1990 A - AVERAGE

Foundation Description Y FARM LITTLITY SHELTER

Calculated MS

100

Percent Complete

565 - Farm Utility Shelter

Doña Ana Assessor

Commercial/Ag Occurrence 5



Commercial/Ag Occurrence 6

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built Property Code

Architectural Style 0 - MISCELANEOUS

Foundation

Y

Description TOOL SHED

Condition

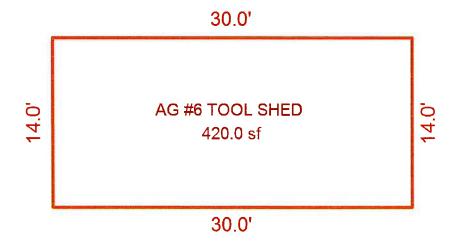
1990 A - AVERAGE

Percent Complete

100

Calculated MS Occupancy

456 - Tool Shed



Commercial/Ag Occurrence 7

Property Code Architectural Style 0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

0 - MISCELANEOUS

1990

Percent Complete

A - AVERAGE

Foundation Description

SUN SHADE

Υ

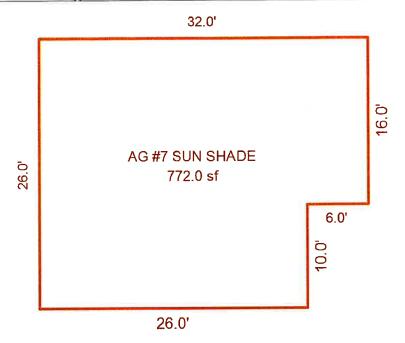
Calculated MS

Condition

566 - Farm Sun Shade Shelter

Doña Ana Assessor

Commercial/Ag Occurrence 7



Commercial/Ag Occurrence 8

Property Code

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

1990

Architectural Style

0 - MISCELANEOUS

Condition

A - AVERAGE

Foundation

Y

Percent Complete

100

Description

ARENA SHELTER

Calculated MS Occupancy

184 - Arena Shelter

Assessment History

Туре	Actual	Assessed
Residential Land	\$147,532	\$49,177
Residential Improvement	\$274,800	\$91,600
Actual (2024)	\$422,332	
Primary Taxable		\$140,777

Doña Ana Assessor

DANIEL S GUILLEN INC

Account: R1704109

Parcel: 4-015-147-202-152

4007 MISSION BELL

LAS CRUCES, NM 88011-9612

Tax Area: 16OUT_NR - 16OUT_NR Acres: 55.440

Situs Address:

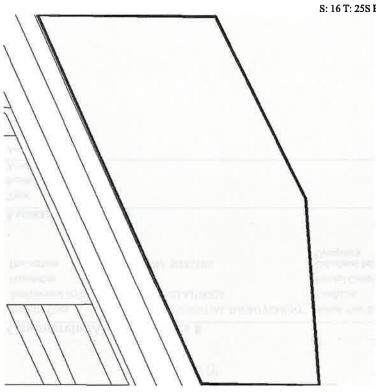
12201 LAS ALTURAS DR

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10



Land Occurrence 1

Property Code Measure

Topography Code

0200 - NON-RESIDENTIAL LAND

PA - PER-ACRE

L - LEVEL

Electricity

OE - OVER-ELECTRC

Street Code Acres

D - DIRT

55.44

SubArea Acres

Total

Zoning

13 - HEAVY INDUSTRIAL

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Non-Residential Land	\$110,880	\$36,960
Actual (2024)	\$110,880	

Primary Taxable

\$36,960

Doña Ana Assessor

WALL ISAAC J WALL SARAH K

Account: R1704107

Parcel: 4-015-147-143-038

Tax Area: 16OUT R - 16OUT_R

12038 VANGOGH DR **EL PASO, TX 79936**

Acres: 5.000

Situs Address: 12195 LAS ALTURAS DR #1 & 2

Mesilla Park, 88048

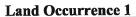
Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10





Property Code

0100 - RESIDENTIAL LAND

Gas

NG - NATURAL-GAS

Sewer Type

ST - SEPTIC-TANK

Topography Code

217800

SQFT

L - LEVEL

Electricity

Measure

Street Code

EFFECTIVE

Acres

Zoning

HEATED

UE - UNDER-ELECTR

PA - PER-ACRE

MU - MIXED USE

A - ASPHALT

FOOTPRINT

SubArea

Acres Sq Ft

Total

Residential Occurrence 1

Property Code Air Conditioning 0120 - RESIDENTIAL IMPROVEMENT

Actual Year Built Architectural Style 2019 OT - OTHER

Baths

2

ACTUAL

Bedrooms Condition **Heating Fuel**

GOOD G-GAS

2

Construction Quality Heating Type

Building Type

PS - PRNCPL-SNGLE A - AVERAGE FC - FORCED-CIRCU

R - REFRIG-AIR

Percent Complete Roof Structure

100 G - GABLE

HEATED

1375.0

Roof Cover SubArea

MT - METAL

EFFECTIVE ACTUAL 1375.0 1375.0 1375.0

1425 0

FOOTPRINT 1375.0

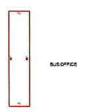
STG - Attached Storage GAR FN - Attached

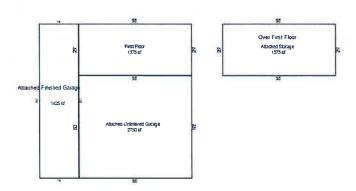
GLA1 - First Floor

1375.0 1425 0 1375.0 1425 0

Doña Ana Assessor

Residential Occurrence 1





Commercial/Ag Occurrence 1

Property Code	
---------------	--

0220 - NON-RESIDENTIAL IMPROVEMENT

Architectural Style

4 - OF/MD/BNK/GT

Condition A - AVERAGE

Percent Complete

344 - Office Building

Actual Year Built

2022

Building Type

S - METAL FRAME

Foundation

Y

Description

DBA: RED BARN TRAILERS

Calculated MS Occupancy

Sudarea
GBA1 - First Floor
Total

ACTUAL	
460.0	
460.00	

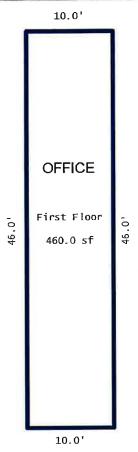
PLLEC IIAE
460.0
460.00

HEATED
460.0
460.00

FOOTPRINT	
460.0	
460.00	

Doña Ana Assessor

Commercial/Ag Occurrence 1



Assessment History

1 LDB C DD LLL C L L L L L L L L L L L L L L		
Туре	Actual	Assessed
Residential Land	\$77,500	\$25,833
Residential Improvement	\$348,429	\$116,143
Non-Residential Improvement	\$57,326	\$19,109
Actual (2023)	\$483,255	
Primary Taxable		\$161,085

Doña Ana Assessor

VASQUEZ JUAN CARLOS

16 EL SUSPIRO CT # 1 MESQUITE, NM 88048-9112 Account: R1712511

Tax Area: 16OUT_R - 16OUT_R

Acres: 1.000

Parcel: 4-015-147-170-028

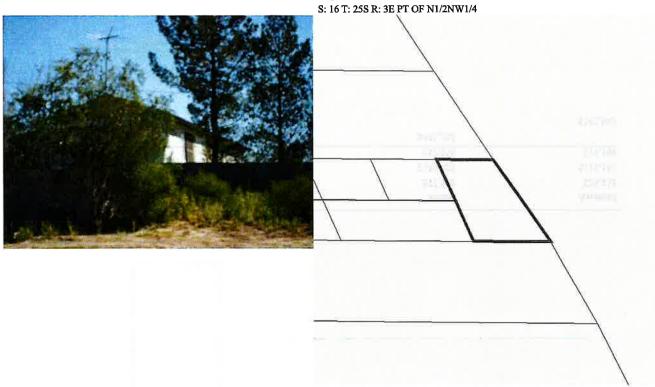
Situs Address:

16 EL SUSPIRO CT #1

Neighborhood

155 - MESA-LD-ANTH

Legal Description



Land Occurrence 1

Property Code

0100 - RESIDENTIAL LAND

PA - PER-ACRE

Street Code

Acres Zoning

Measure

D-DIRT

Gas

SQFT

Sewer Type Topography Code

ST - SEPTIC-TANK R - ROLLING

P - PROPANE

43560

MU - MIXED USE

SubArea Acres

Sq Ft Total

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Commercial/Ag Occurrence 1

Property Code

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

2009

Architectural Style

0 - MISCELANEOUS

Condition Percent Complete F - FAIR 100

Foundation Description

TOOL SHED

Units

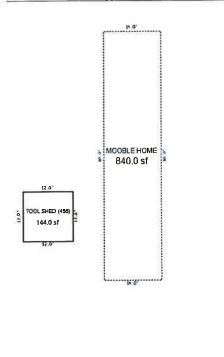
Calculated MS Occupancy

456 - Tool Shed

FOOTPRINT SubArea ACTUAL **EFFECTIVE** HEATED 840.0 NCA - Courtyard Area 840.0 840.0 840.00 Total 840.00 840.00

Doña Ana Assessor

Commercial/Ag Occurrence 1



16.01 OOL SHED(456) 160 0 sf

16.0 TOOL SHED (456) 256.0 sf

Commercial/Ag Occurrence 2

Property Code

Architectural Style

Foundation

Description

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

0 - MISCELANEOUS

Y

TOOL SHED

Condition

Percent Complete

Calculated MS Occupancy

2009

F - FAIR

100

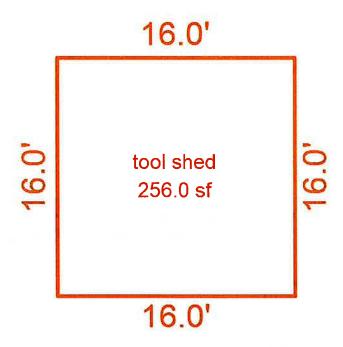
456 - Tool Shed

16.0'

tool shed 160.0 sf

Doña Ana Assessor

Commercial/Ag Occurrence 3



Assessment History

Туре	Actual	Assessed
Residential Land	\$15,500	\$5,167
Residential Improvement	\$3,576	\$1,192
Actual (2024)	\$19,076	
Primary Taxable		\$6,359

Doña Ana Assessor

DOMINGUEZ DELIA DOMINGUEZ DAVID JR SORIANO LORRAINE D **SORIANO EDUARDO**

Account: R1704106

Tax Area: 16OUT_R - 16OUT_R

Acres: 5.000

Parcel: 4-015-147-119-006

Situs Address:

11171 LAS ALTURAS DR

2610 TUSCAN HILLS LANE LAS CRUCES, NM 88011

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10 INSTRUMENT #2109749



Land Occurrence 1

0100 - RESIDENTIAL LAND Property Code

L - LEVEL

Gas P - PROPANE

Sewer Type ST - SEPTIC-TANK

Topography Code

SQFT

217800

Electricity

E - ELECTRIC

PA - PER-ACRE Measure

Street Code

D - DIRT

5 Acres

MU - MIXED USE Zoning

SubArea Acres

Sq Ft Total

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Commercial/Ag Occurrence 1

Property Code

Foundation

0120 - RESIDENTIAL IMPROVEMENT Actual Year Built

0 - MISCELANEOUS

Condition

Percent Complete

1998 F - FAIR 100

Description

Architectural Style

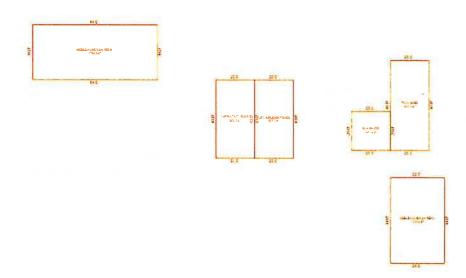
FARM UTILITY BLDG

Calculated MS Occupancy

477 - Farm Utility Building

Doña Ana Assessor

Commercial/Ag Occurrence 1



Commercial/Ag Occurrence 2

Property Code

0120 - RESIDENTIAL IMPROVEMENT

Actual Year Built

1998

Architectural Style

0 - MISCELANEOUS

Condition

F - FAIR

Foundation

0 - MIBCELANEOU

Percent Complete

100

Description

FRAM IMPLEMENT SHED

Calculated MS

478 - Farm Implement Shed

Occupancy

Commercial/Ag Occurrence 3

Property Code

0120 - RESIDENTIAL IMPROVEMENT

Calculated MS Occupancy 456 - Tool Shed

Doña Ana Assessor

Commercial/Ag Occurrence 4	Occupancy	
Assessment History		
Туре	Actual	Assesse
Residential Land	\$77,500	\$25,833
Residential Improvement	\$8,612	\$2,871
Actual (2024)	\$86,112	
ACIUM (ZVZ4)		

Doña Ana Assessor

HERRMANN DAVID

Account: R1704075

Acres: 4.980

Parcel: 4-015-146-105-508

5845 ONIX DR STE 300 EL PASO, TX 79912

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

11091 LAS ALTURAS DR

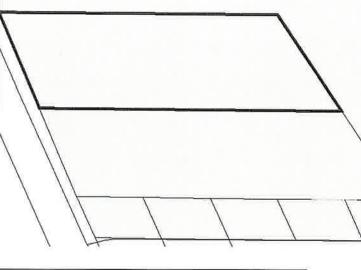
Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 9 T: 25S R: 3E INST#2227424





Commercial/Ag Occurrence 1

Property Code

0220 - NON-RESIDENTIAL IMPROVEMENT

Actual Year Built

2001

Architectural Style

3 - INDUSTRIAL

Building Type

S - METAL FRAME

Condition

A - AVERAGE

Construction Quality

Α 320

Foundation

Y

Perimeter Exterior Wall

ML

Stories Percent 1 100

Calculated MS Occupancy

406 - Storage Warehouse

SubArea

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

GBA1 - First Floor

8000.0

8000.0

0.0008

8000.0

Total

8,000.00

8,000.00

8,000.00

8,000.00

First Floor 6000

Doña Ana Assessor

Land Occurrence 1

Sewer Type

ST - SEPTIC-TANK

Street Code

A - ASPHALT

Topography Code

L - LEVEL

Acres

4.98

Zoning

MU - MIXED USE

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

SubArea

Acres Total

Assessment History

TEDBOOD TETTO		
Туре	Actual	Assessed
Non-Residential Land	\$77,190	\$25,730
Non-Residential Improvement	\$343,383	\$114,461
A A A L (2003)	\$420 573	

Actual (2023)

\$420,573

Primary Taxable

\$140,191

Doña Ana Assessor

DOMINGUEZ EDDIE L &

Account: R1716753

Parcel: 4-015-146-075-453

MARIA J

Tax Area: 16OUT_R - 16OUT_R

Situs Address:

PO BOX 505

Acres: 3.000

10591 LAS ALTURAS DR #1

Mesquite, 88048

MESQUITE, NM 88048

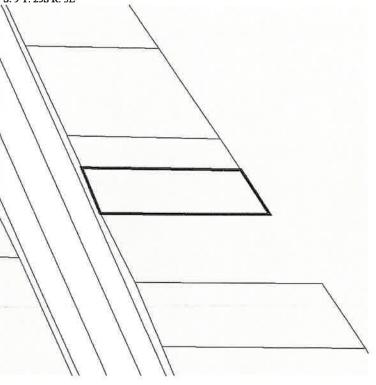
Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 9 T: 25S R: 3E





Land Occurrence 1

Property Code

0100 - RESIDENTIAL LAND

Electricity

OE - OVER-ELECTRC

Measure Street Code PA - PER-ACRE A - ASPHALT

Sewer Type

ST - SEPTIC-TANK

Topography Code

L - LEVEL

Acres

SQFT

130680

Zoning

MU - MIXED USE

SubArea

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Acres Sq Ft

Total

Residential Occurrence 1

Property Code

2001

1.0

100

Air Conditioning

E - EVAP-COOLER

Architectural Style

RN - RANCH

Baths

Bedrooms

Building Type Construction Quality PS - PRNCPL-SNGLE

Condition

AVERAGE

A - AVERAGE

Heating Type

FC - FORCED-CIRCU

Heating Fuel Roof Cover

P - PROPANE

Roof Structure Exterior Wall

G - GABLE SF - STUCCO-FRAME Stories Percent SH - SHINGLE

Interior Wall

SubArea

SR - SHEETROCK

ACTUAL 2294.0 **EFFECTIVE**

HEATED

FOOTPRINT

GLA1 - First Floor

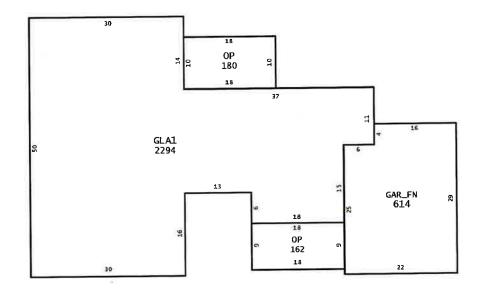
2294.0

2294.0

2294.0

Doña Ana Assessor

Residential Occurrence 1



Assessment History		
Туре	Actual	Assessed
Residential Land	\$44,945	\$14,982
Residential Improvement	\$182,690	\$60,897
Actual (2024)	\$227,635	
Primary Taxable		\$75,879

Doña Ana Assessor

GANDARA JOSE A & ANA VELIA

Account: R1716754

Parcel: 4-015-146-070-435

Tax Area: 16OUT_R - 16OUT_R Acres: 2.000

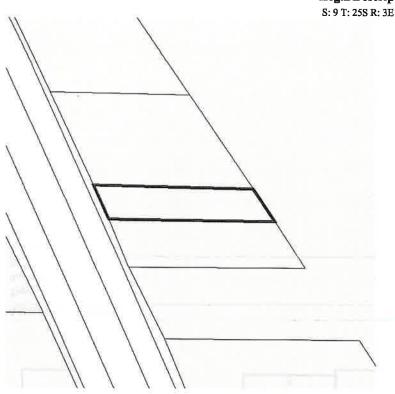
Situs Address:

955 LOMA VERDE EL PASO, TX 79936

Neighborhood

155 - MESA-LD-ANTH

Legal Description



Land Occurrence 1

Property Code

0100 - RESIDENTIAL LAND

Electricity Sewer Type OE - OVER-ELECTRC ST - SEPTIC-TANK

Measure Street Code PA - PER-ACRE A - ASPHALT

Topography Code

L - LEVEL

Acres

SQFT

87120

Zoning

MU - MIXED USE

SubArea

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Acres

Sq Ft

Total

Assessment History

Туре	Actual	Assessed
Residential Land	\$31,000	\$10,333
Actual (2024)	\$31,000	

Primary Taxable

\$10,333

Doña Ana Assessor

ENRIQUEZ MIGUEL LARA MARIA SALAS FELIPE SALAS ALEJANDRA DOMINGUEZ ANTONIO **DOMINGUEZ BLANCA**

Account: R1712339

Tax Area: 16OUT_NR - 16OUT_NR

Acres: 5.000

Parcel: 4-015-146-054-414

Situs Address: 10581 LAS ALTURAS DR

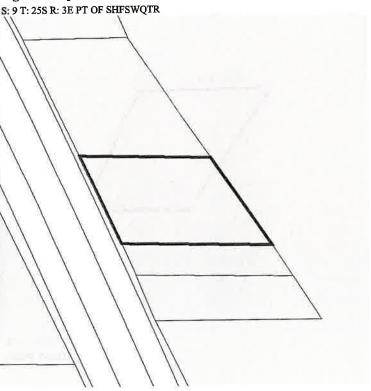
PO BOX 325 MESQUITE, NM 88048

Neighborhood

155 - MESA-LD-ANTH



Legal Description



Land Occurrence 1

Property Code

Topography Code

0200 - NON-RESIDENTIAL LAND

PA - PER-ACRE

R - ROLLING

SQFT

Measure

217800

Electricity

Street Code

A - ASPHALT

5

Acres Zoning

MU - MIXED USE

OE - OVER-ELECTRC

SubArea Acres

Sq Ft Total

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Type	Actual	Assessed
Non-Residential Land	\$77,500	\$25,833
140H-Residential Earle	\$77.50D	

Actual (2024)

Primary Taxable

\$25,833

Doña Ana Assessor

ENRIQUEZ MIGUEL LARA MARIA **SALAS FELIPE** SALAS ALEJANDRA **DOMINGUEZ ANTONIO DOMINGUEZ BLANCA**

Account: R1704072

Tax Area: 16OUT_R - 16OUT_R

Acres: 5.740

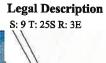
Parcel: 4-015-146-048-402

Situs Address:

PO BOX 325 MESQUITE, NM 88048

Neighborhood

155 - MESA-LD-ANTH







Property Code

Sewer Type

0100 - RESIDENTIAL LAND

P - PROPANE

ST - SEPTIC-TANK

Acres

5.74

Electricity

Measure

Topography Code

Zoning

E - ELECTRIC

PA - PER-ACRE

R - ROLLING MU - MIXED USE

SubArea Acres

Total

Gas

ACTUAL

EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Residential Land	\$88,970	\$29,657
Actual (2024)	\$88,970	

Primary Taxable

\$29,657

Doña Ana Assessor

DOMINGUEZ FARMS INC

Account: R1704071

Parcel: 4-015-146-014-290

PO BOX 21

Tax Area: 16OUT_NR - 16OUT_NR

Situs Address:

MESQUITE, NM 88048-0021

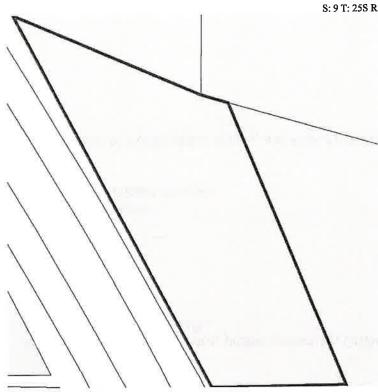
Acres: 11.000

Neighborhood

155 - MESA-LD-ANTH

Legal Description

S: 9 T: 25S R: 3E BRM 19 TR 4



Land Occurrence 1

Property Code

0200 - NON-RESIDENTIAL LAND

Measure
Topography Code

PA - PER-ACRE

Street Code

A - ASPHALT

11

е

R - ROLLING

. . .

Acres

Zoning

12 - MEDIUM INDUSTRIAL

SubArea

Acres Total ACTUAL EFFECTIVE

HEATED

FOOTPRINT

Assessment History

Туре	Actual	Assessed
Non-Residential Land	\$55,000	\$18,333
Actual (2024)	\$55,000	
Primary Taxable		\$18,333



December 18, 2024

United States of America CERTIFIED MAIL 9589 0710 5270 1280 4773 12

Bureau of Land Management Las Cruces District Office RETURN RECEIPT REQUESTED

1800 Marquess

Las Cruces, New Mexico 88005-3371

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

To Whom is May Concern,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number) RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM 10	21 pph	32 tpy
PM _{2.5}	4 pph	5 tpy
Sulfur Dioxide (SO ₂)	2 pph	2 tpy
Nitrogen Oxides (NO _x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: GCC Sun City Materials, LLC #1 McKelligon Canyon Road El Paso, TX 79930 If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.



December 18, 2024

Daniel S. Guillen 4007 Mission Bell Las Cruces, New Mexico 88011-9612 CERTIFIED MAIL 9589 0710 5270 1280 4773 29 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Guillen,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number) RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

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Pounds per hour	Tons per year
46 pph	93 tpy
21 pph	32 tpy
4 pph	5 tpy
2 pph	2 tpy
11 pph	11 tpy
54 pph	48 tpy
114 pph	19 tpy
3 pph	2 tpy
n/a	28,021 tpy
	46 pph 21 pph 4 pph 2 pph 11 pph 54 pph 114 pph

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: GCC Sun City Materials, LLC #1 McKelligon Canyon Road El Paso, TX 79930 If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination

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December 18, 2024

Isaac J. & Sarah K Wall 12038 Van Gogh Drive El Paso, Texas 79936

CERTIFIED MAIL 9589 0710 5270 1280 4773 36 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Wall,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: GCC Sun City Materials, LLC #1 McKelligon Canyon Road El Paso, TX 79930 If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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Sincerely,

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December 18, 2024

Juan Carlos Vasquez 16 El Suspiro Court #1 Mesquite, New Mexico 88048-9112 CERTIFIED MAIL 9589 0710 5270 1280 4772 44 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Vasquez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

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December 18, 2024

David Jr. & Delia Dominguez Eduardo & Lorraine Soriano 2610 Tuscan Hills Lane Las Cruces, New Mexico 88011 CERTIFIED MAIL 9589 0710 5270 1280 4772 51 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Sincerely.

By: Shawn Haven

Senior Project Manager

Enclosure:

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December 18, 2024

David Herrmann 5845 Onix Drive Suite 300 El Paso, Texas 79912 CERTIFIED MAIL 9589 0710 5270 1280 4772 99 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Herrmann,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

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Notice of Non-Discrimination



Eddie L & Maria J Dominguez PO Box 505 Mesquite, New Mexico 88048 CERTIFIED MAIL 9589 0710 5270 1280 4773 05 RETURN RECEIPT REQUESTED

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Senior Project Manager

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Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Jose Gandara Ana Velia 955 Loma Verde El Paso, Texas 79936 CERTIFIED MAIL 9589 0710 5270 2383 2722 79 RETURN RECEIPT REQUESTED

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Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Miguel Enriquez Maria Lara Felipe & Alejandra Salas Antonio & Blanca Dominguez PO Box 325 Mesquite, New Mexico 880048 CERTIFIED MAIL 9589 0710 5270 2383 2722 86 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

To Whom is May Concern,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

Bv: Sh

Shawn Haven

Senior Project Manager

Enclosure:

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number) RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM 10	21 pph	32 tpy
PM 2.5	4 pph	5 tpy
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Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Dominguez Farms Incorporated PO Box 21 Mesquite, New Mexico 88048-0021 CERTIFIED MAIL 9589 0710 5270 2383 2723 78 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

To Whom it May Concern,

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Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Diana Murillo Mayor – Anthony, NM 820 Highway 478 Anthony, New Mexico 88021 CERTIFIED MAIL 9589 0710 5270 2383 2723 85 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Ms. Murillo,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter .

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Eric Enriquez
Mayor – Las Cruces, NM
700 N. Main Street
Las Cruces, New Mexico 88001

CERTIFIED MAIL 9589 0710 5270 2383 2723 92 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Enriquez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Commissioner – District 1 Christopher Schaljo-Hernandez 845 North Motel Boulevard Las Cruces, New Mexico 88007 CERTIFIED MAIL 9589 0710 5270 2383 2722 93 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Hernandez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number) RETURN RECEIPT REQUESTED

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Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Commissioner – District 2 Diana Murillo 845 North Motel Boulevard Las Cruces, New Mexico 88007 CERTIFIED MAIL 9589 0710 5270 2383 2723 09 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Ms. Murillo,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Commissioner – District 3 Shannon Reynolds 845 North Motel Boulevard Las Cruces, New Mexico 88007 CERTIFIED MAIL 9589 0710 5270 2383 2723 16 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Reynolds,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Commissioner – District 4 Susana Chaparro 845 North Motel Boulevard Las Cruces, New Mexico 88007 CERTIFIED MAIL 9589 0710 5270 2383 2723 23 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Ms. Chaparro,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

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Sincerely,

By: Shawn Haven

Senior Project Manager

Enclosure:

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Sincerely, GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination



Commissioner – District 5 Manuel A. Sanchez 845 North Motel Boulevard Las Cruces, New Mexico 88007 CERTIFIED MAIL 9589 0710 5270 2383 2723 30 RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Sanchez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

Bv: Shawn Haven

Senior Project Manager

Enclosure:

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number) RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM 10	21 pph	32 tpy
PM 2.5	4 pph	5 tpy
Sulfur Dioxide (SO ₂)	2 pph	2 tpy
Nitrogen Oxides (NO _x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO ₂ e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,

GCC Sun City Materials, LLC 10795 Las Alturas Drive Mesquite, New Mexico 88048

Notice of Non-Discrimination

General Posting of Notices - Certification

- I, Octavio Holguin, Jr., the undersigned, certify that on December 17, 2024, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the City of Vado, Dona Ana County, State of New Mexico on the following dates:
 - GCC Vado Facility entrance <u>December 17, 2024</u> 10795 Las Alturas Dr. Mesquite, New Mexico 88048
 - Mesquite Post Office <u>December 17, 2024</u>
 295 Highway 228
 Mesquite, New Mexico 88048
 - Valero Truck Stop <u>December 17, 2024</u> 16320 Stern Dr. #7298 Vado, New Mexico 88072
 - 4. Vado Elementary <u>December 17, 2024</u> 330 Holguin Road Vado, New Mexico 88072

Signed this 23day of December 2024.

Signature Date 12/23/24

Printed Name Octavio Holguin, Jr.

Title Environmental Engineer

NOTICE

GCC Sun City Materials, LLC (GCC) announces its application to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

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Particulate Matter (PM)	46 pph	93 tpy
PM ₁₀	21 pph	32 tpy
PM _{2.5}	4 pph	5 tpy
Sulfur Dioxide (SO ₂)	2 pph	2 tpy
Nitrogen Oxides (NO _x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants		
(HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: GCC Sun City Materials, LLC #1 McKelligon Canyon Road El Paso, TX 79930

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air

Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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List of places where the public notice was posted.

Facility entrance on December 17, 2024 GCC Vado Aggregates Facility 10795 Las Alturas Dr. Mesquite, New Mexico 88048





Mesquite Post Office <u>December 17, 2024</u> 295 Highway 228 Mesquite, New Mexico 88048





Valero Truck Stop <u>December 17, 2024</u> 16320 Stern Dr. #7298 Vado, New Mexico 88072





Vado Elementary School <u>December 17, 2024</u>
330 Holguin Road
Vado, New Mexico 88072





GCC Sun City Materials, LLC Vado Site

4-014-146-490-121 R1702853 4-015-146-270-154 R1704077 4-016-147-264-263 R1705125 4-016-147-320-230 R1705126 4-015-147-368-262 R1704111 4-015-147-143-038 R1704109 4-015-147-170-028 R1712511 4-015-147-119-006 R1704075 4-015-146-075-453 R1716754 4-015-146-070-435 R1712339		United States of America GUILLEN, DANIEL S WALL, ISAACJ	1800 MARQUESS	9589 0710 5270 1280 4773 12
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		WALL, ISAAC J	LAS CRUCES, NM 88011-9612	
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		VASQUEZ, JUAN CAKLUS	MESQUITE, NM 88048-9112	
	>	DOMINGUEZ, DELIA	2610 TUSCAN HILLS LANE	9589 0710 5270 1280 4772 51
		DOMINGUEZ, DAVID JR	LAS CRUCES, NM 88011	
		SORIANO, LORRAINE D		
		SORIANO, EDUARDO		
	W	HERRMANN, DAVID	5845 ONIX DR STE 300	9589 0710 5270 1280 4772 99
			EL PASO, TX 79912	
	A	DOMINGUEZ, EDDIE L & MARIA J	PO BOX 505	9589 0710 5270 1280 4773 05
			MESQUITE, NM 88048	
	M	GANDARA, JOSE A & ANA VELIA	955 LOMA VERDE	9589 0710 5270 2383 2722 79
			EL PASO, TX 79936	
	A	ENRIQUEZ, MIGUEL	PO BOX 325	9589 0710 5270 2383 2722 86
		LARA, MARIA	MESQUITE, NM 88048	
		SALAS, FELIPE		
		SALAS, ALEJANDRA		
		DOMINGUEZ, ANTONIO		
		DOMINGUEZ, BLANCA		
4-015-146-048-402 R1704072	W			
4-015-146-014-290 R1704071	M	DOMINGUEZ FARMS INC	PO BOX 21 MESQUITE, NM 88048-0021	9589 0710 5270 2383 2723 78

Certified Mailing Receipt No. 9589 0710 5270 2383 2723 85 9589 0710 5270 2383 2723 92 9589 0710 5270 2383 2722 93 9589 0710 5270 2383 2723 16 9589 0710 5270 2383 2723 23 9589 0710 5270 2383 2723 09 9589 0710 5270 2383 2723 30 Las Cruces, NM 88007 845 N. Motel Blvd Las Cruces, NM 88007 Las Cruces, NM 88007 845 N. Motel Blvd Las Cruces, NM 88007 Las Cruces, NM 88001 Anthony, NM 88021 700 N. Main Street 845 N. Motel Blvd 845 N. Motel Blvd 845 N. Motel Blvd 820 Highway 478 County Commissioner | Christopher Schaljo-Hernandez Name County Commissioner | Manuel A. Sanchez County Commissioner | Shannon Reynolds County Commissioner | Susana Chaparro Diana Murillo County Commissioner Diana Murillo Eric Enriquez Table 2: Noticed County and Municipalities
Municipality/County
Title Mayor Dona Ana District 5 Dona Ana District 2 Dona Ana District 3 Dona Ana District 4 Jona Ana District 1 as Cruces Anthony

Las Cruces, NM 88007

Submittal of Public Service Announcement - Certification

I, Octavio Holguin, Jr., the undersigned, certify that on December 17, 2024, submitted a public

service announcement to Adams Radio Group of Las Cruces that serves the City of Vado,

Dona Ana County, New Mexico, in which the source is or is proposed to be located and that

Adams Radio Group of Las Cruces RESPONDED THAT IT WOULD AIR THE

ANNOUNCEMENT.

Signed this 23 day of December, 2724,

Octavio Holguin, Jr.

Printed Name

Environmental Engineer

Title

PSA NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC), the principal owner and operator of the existing GCC Vado Site located at 10795 Las Alturas Drive, Mesquite, New Mexico 88048, is applying for a new air quality permit for the construction of new rock crushing operations and modification of the hot mix asphalt operations. The proposed site modifications consist of replacement of rock crushing equipment and relocation of the crushing operations within the existing site. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

If you have any comments about the construction or operation of the above facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to the address below:

New Mexico Environment Department Air Quality Bureau – Permitting Section 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505-1816 (505) 476-4300

Copies of the public notice can be found at the following locations:

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Mesquite Post Office 295 Highway 228 Mesquite, New Mexico 88048

Valero Truck Stop 16320 Stern Dr. #7298 Vado, New Mexico 88072

Vado Elementary 330 Holguin Road Vado, New Mexico 88072



Texas/New Mexico

GANNETT

PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin GCC Sun City Materials LLC I Mckelligon Canyon RD El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

The Las Cruces Sun News, a newspaper published in the city of Las Cruces, Dona Ana County, State of New Mexico, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

12/20/2024

and that the fees charged are legal. Sworn to and subscribed before on 12/20/2024

LegalClerk

(/

My commission expires

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NANCY HEYRMAN Notary Public State of Wisconsin

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If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emislones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.



Texas/New Mexico

GANNETT

PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin GCC Sun City Materials LLC I Mckelligon Canyon RD El Paso TX 79930-2634

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Legal Clerk

Notary, State of WI, County of Br

My commission expires

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NANCY HEYRMAN Notary Public State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC) anuncia la presentación de su solicitud al Departamento de Medio Ambiente de Nuevo México para un nuevo permiso de calidad del aire para la construcción de las nuevas operaciones de trituración de rocas y la modificación de las operaciones de mezcla asfáltica en caliente. La fecha prevista de presentación de la solicitud a la Oficina de Calidad del Aire es el 31 de diciembre de 2024.

La ubicación exacta de la instalación propuesta conocida como GCC Vado Site es 10795 Las Alturas Drive, Mesquite, Nuevo México 88048. La ubicación aproximada de esta instalación es 0.1 millas al noreste de la intersección de la autopista interestatal I-10 y Vado Drive en Condado de Doña Ana.

Las modificaciones propuestas al sitio consisten en el reemplazo de equipos y la reubicación de las operaciones de trituración. Las modificaciones permitirán operaciones nocturnas de trituración y operaciones de instalaciones de asfalto. El sitio funcionará las 24 horas del día y los 7 días de la semana.

Las cantidades máximas estimadas de cualquier contaminante del aire regulado serán las siguientes en libras por hora (pph) y toneladas por año (tpy) y podrían cambiar ligeramente durante el curso de la revisión del Departamento:

١	Pollutant:	Libras por hora	Toneladas por año
	Materia Particulada (PM)	46 lph	93 tpa
	PM _{IU}	21 lph	32 tpa
	PM ₂₅	4 lph	5 tpa
	Dióxido de azufre (SO ₂)	2 lph	2 tpa
	Óxidos de nitrógeno (NO ₂)	11 lph	11 tpa
	monóxido de carbono (CO)	54 lph	48 tpa
	Compuestos orgánicos volátiles (VOC)	114 lph	19 tpa
	Suma total de todos los contaminantes atmosféricos peligrosos (CAP)	3 lph	2 tpa
	Emisiones de gases de efecto invernadero como CO2e total	n/a	28,021 lpa

Los horarios de funcionamiento estándar y máximo de la instalación serán de 24 horas al día, 7 días a la semana y un máximo de 52 semanas al año.

El propietario y/u operador de la Instalación es:

GCC Sun City Materials, LLC

#1 McKelligon Canyon Road

El Paso, TX 79930

Si tiene algún comentario sobre la construcción u operación de esta instalación y desea que sus comentarios se hagan como parte del proceso de revisión del permiso, debe enviar sus comentarios por escrito a esta dirección: Gerente de Programas de Permisos; Departamento de Medio Ambiente de Nuevo México; Oficina de Calidad del Aire; 525 Camino de los Márquez, Suite 1; Santa Fe, Nuevo México; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Otros comentarios y preguntas pueden enviarse verbalmente.

Consulte el nombre de la empresa y el nombre del sitio, o envíe una copia de este aviso junto con sus comentarios, ya que es posible que el Departamento aún no haya recibido la solicitud de permiso. Incluya una dirección postal de devolución legible con sus comentarios. Una vez que el Departamento haya realizado una revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico que circule cerca de la ubicación de la instalación.

Puede encontrar información general sobre la calidad del aire y el proceso de obtención de permisos en el sitio web de la Oficina de Calidad del Aire. La regulación que trata sobre la participación pública en el proceso de revisión de permisos es 20.2.72.206 NMAC. Este reglamento se puede encontrar en la sección "Permisos" de este sitio web.

Atención

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Aviso de no discriminación

NMED no discrimina por motivos de raza, color, origen nacional, discapacidad, edad o sexo en la administración de sus programas o actividades, según lo exigen las leyes y regulaciones aplicables. NMED es responsable de coordinar los esfuerzos de cumplimiento y recibir consultas relacionadas con los requisitos de no discriminación implementados por 40 C.F.R. Parte 7, incluido el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Sección 504 de la Ley de Rehabilitación de 1973; la Ley de Discriminación por Edad de 1975, el Título IX de las Enmiendas a la Educación de 1972 y la Sección 13 de las Enmiendas a la Ley Federal de Control de la Contaminación del Agua de 1972. Si tiene alguna pregunta sobre este aviso o cualquiera de los programas, políticas o procedimientos de no discriminación de NMED, o si cree que ha sido discriminado con respecto a un programa o actividad de NMED, puede comunicarse con: Kathryn Becker, Coordinadora de No Discriminación, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. También puede visitar nuestro sitio web en https://www.env.nm.gov/non-employee-discriminación.



PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin GCC Sun City Materials LLC 1 Mckelligon Canyon RD El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

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Notary, State of WI County of Brown

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The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: GCC Sun City Materials, LLC #1 McKelligon Canyon Road El Paso, TX 79930

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.



GANNETT

PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin GCC Sun City Materials LLC I Mckelligon Canyon RD El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

The Las Cruces Sun News, a newspaper published in the city of Las Cruces, Dona Ana County, State of New Mexico, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

12/20/2024

and that the fees charged are legal. Sworn to and subscribed before on 12/20/2024

Legal Clerk

Notary, State of WY, County & Brown

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NANCY HEYRMAN Notary Public State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC) anuncia la presentación de su solicitud al Departamento de Medio Ambiente de Nuevo México para un nuevo permiso de calidad del aire para la construcción de las nuevas operaciones de trituración de rocas y la modificación de las operaciones de mezcla asfáltica en caliente. La fecha prevista de presentación de la solicitud a la Oficina de Calidad del Aire es el 31 de diciembre de 2024.

La ubicación exacta de la instalación propuesta conocida como GCC Vado Site es 10795 Las Alturas Drive, Mesquite, Nuevo México 88048. La ubicación aproximada de esta instalación es 0.1 millas al noreste de la intersección de la autopista interestatal 1-10 y Vado Drive en Condado de Doña Ana.

Las modificaciones propuestas al sitio consisten en el reemplazo de equipos y la reubicación de las operaciones de trituración. Las modificaciones permitirán operaciones nocturnas de trituración y operaciones de instalaciones de asfalto. El sitio funcionará las 24 horas del día y los 7 días de la semana.

Las cantidades máximas estimadas de cualquier contaminante del aire regulado serán las siguientes en libras por hora (pph) y tonefadas por año (tpy) y podrían cambiar ligeramente durante el curso de la revisión del Departamento:

Pollutant:	Libras por hora	Toneladas por año
Materia Particulada (PM)	46 lph	93 tpa
PM ₁₀	21 lph	32 tpa
PM ₂₅	4 lph	5 tpa
Dlóxido de azufre (SO ₂)	2 lph	2 tpa
Óxidos de nitrógeno (NO ₂)	11 lph	11 tpa
monóxido de carbono (CO)	54 lph	48 tpa
Compuestos orgánicos volátiles (VOC)	114 lph	19 tpa
Suma total de todos los contaminantes atmosféricos peligrosos (CAP)	3 lph	2 tpa
Emisiones de gases de efecto invernadero como CO2e total	n/a	28,021 tpa

Los horarios de funcionamiento estándar y máximo de la instalación serán de 24 horas al día, 7 días a la semana y un máximo de 52 semanas al año.

El propietario y/u operador de la Instalación es:

GCC Sun City Materials, LLC

#1 McKelligon Canyon Road

El Paso, TX 79930

Si tiene algún comentario sobre la construcción u operación de esta instalación y desea que sus comentarios se hagan como parte del proceso de revisión del permiso, debe enviar sus comentarios por escrito a esta dirección: Gerente de Programas de Permisos; Departamento de Medio Ambiente de Nuevo México; Oficina de Calidad del Aire; 525 Camino de los Márquez, Suite 1; Santa Fe, Nuevo México; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Otros comentarios y preguntas pueden enviarse verbalmente.

Consulte el nombre de la empresa y el nombre del sitio, o envíe una copia de este aviso junto con sus comentarios, ya que es posible que el Departamento aún no haya recibido la solicitud de permiso. Incluya una dirección postal de devolución legible con sus comentarios. Una vez que el Departamento haya realizado una revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico que circule cerca de la ubicación de la instalación.

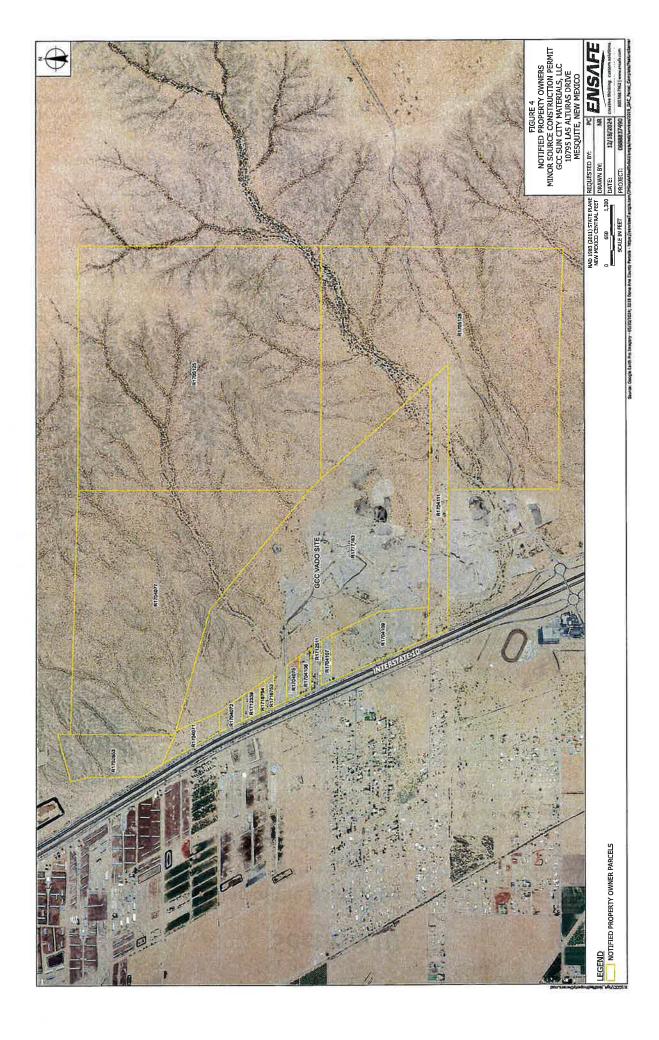
Puede encontrar información general sobre la calidad del aire y el proceso de obtención de permisos en el sitio web de la Oficina de Calidad del Aire. La regulación que trata sobre la participación pública en el proceso de revisión de permisos es 20.2.72.206 NMAC. Este reglamento se puede encontrar en la sección "Permisos" de este sitio web.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Aviso de no discriminación

NMED no discrimina por motivos de raza, color, origen nacional, discapacidad, edad o sexo en la administración de sus programas o actividades, según lo exigen las leyes y regulaciones aplicables. NMED es responsable de coordinar los esfuerzos de cumplimiento y recibir consultas relacionadas con los requisitos de no discriminación implementados por 40 C.F.R. Parte 7, incluido el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Sección 504 de la Ley de Rehabilitación de 1973; la Ley de Discriminación por Edad de 1975, el Título IX de las Enmiendas a la Educación de 1972 y la Sección 13 de las Enmiendas a la Ley Federal de Control de la Contaminación del Agua de 1972. Si tiene alguna pregunta sobre este aviso o cualquiera de los programas, políticas o procedimientos de no discriminación de NMED, o si cree que ha sido discriminado con respecto a un programa o actividad de NMED, puede comunicarse con: Kathryn Becker, Coordinadora de No Discriminación, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. Tamblén puede visitar nuestro sítio web en https://www.env.nm.gov/non-employee-discrimination-complaint-page/ para saber cómo y dónde presentar una queja por discriminación.



Section 10

Written Description of the Routine Operations of the Facility

A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Vado Site consists of an asphalt plant, and a crushing plant with a wash plant which will operate 24 hours a day, 7 days a week, 52 weeks a year.

Asphalt Plant

The Asphalt Plant consists of aggregate/sand and recycled asphalt Pavement (RAP) cold feed bins, conveyors, pugmill, screens, drum mixer, crusher, silos, and mix truck loading operations. Aggregate and sand are loaded in the cold feed bins which feed underbin Conveyor 1 followed by Conveyor 2. Conveyor 2 drops the aggregate/sand into the pugmill to be mixed with the versabind/lime prior to being transferred to Conveyor 3. Conveyor 3 drops the material into a scalping screen to be segregated by size before being transferred into Conveyor 4 and introduced into the drum mixer. The drum mixer heats and dries the material and mixes the material with liquid asphalt cement from the asphalt tanks and RAP from the RAP line. The mixture is dropped into Conveyor 7 which feeds the hot mix asphalt storage silos.

Recycled Asphalt Pavement Line

RAP is loaded into the RAP cold feed bin and transferred by Conveyor 5 into the RAP crusher to be crushed into smaller sizes. Crushed RAP is screened and transferred by Conveyor 6 into the drum mixer.

Crushing Plant

Crushing operations at the crushing plant will be performed by the HSI Crusher, Patriot 300 Cone Crusher, and Patriot 200 Cone Crusher and associated screens, tunnel belts, conveyors, and stackers. A wash plant at the crushing plant operations area will wash sand and aggregates with water.

HSI Crusher

Raw material will be delivered to the HSI Crusher. The crushed material will pass through a screen (Guardian 6202) where material will be segregated by size before being dropped into either Conveyor 1 or Conveyor 2. Material dropped into Conveyor 1 will be sent to Stacker 1 to be stockpiled. Material dropped into Conveyor 2 will be sent to Stacker 2 and into the surge stockpile. The surge stockpile will feed material into the Patriot 300 Cone Crusher and Patriot 200 Cone Crusher operations and associated screens and conveyors.

Patriot 300 Cone Crusher

The surge stockpile will feed the Tunnel 1 belt which will load material into a screen (Guardian 8203) where material will be segregated by size. Oversized material will be crushed in the Patriot 300 Cone Crusher and recycled through the screen. Properly sized material will be dropped into either Conveyor 3, Conveyor 4, or Conveyor 5 and into dedicated stackers and stockpiles.

Patriot 200 Cone Crusher

The Patriot 200 Cone Crusher will be equipped with a built-in screen. The Patriot 200 Cone Crusher/Screen will receive material via the Tunnel 2 belt from the surge stockpile to be crushed/screened before being dropped into either Conveyor 6, Conveyor 7, or Conveyor 8 and into dedicated stackers and stockpiles.

Water sprays will be used as emission control at the crushers, screens, surge hoppers, conveyor belts and stackers.

Wash Plant

Unwashed/dry sand and aggregate will be delivered to a feed hopper and transferred into a feed conveyor. The sand and aggregate will be washed at the end of the feed conveyor and transferred into a wet screen. Washed aggregate greater than 1 inch in size will be dropped from the screen into stacker 1. Washed aggregate less than 1 inch in size will be dropped into a

jumper conveyor, followed by an auger wash rock and into Stacker 3. Washed sand will be dropped from the screen into stacker 2. No emissions are expected at the screen and after the screen given that material will be wet.

applicability purposes.

following facilities or emissions sources (list and describe):

Section 11

Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, <u>Single Source Determination Guidance</u>, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe):

B. A	Apply the 3 criteria for determining a single source:
	<u>SIC Code</u> : Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, <u>OR</u> surrounding or associated sources that belong to
	different 2-digit SIC codes are support facilities for this source.
	□ Yes □ No
	<u>Common Ownership or Control</u> : Surrounding or associated sources are under common ownership or control as this source.
	□ Yes □ No
	<u>Contiguous or Adjacent</u> : Surrounding or associated sources are contiguous or adjacent with this source.
	□ Yes □ No
С. Г	Make a determination:
X	The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72,
	20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that
	is the subject of this application, all "YES" boxes should be checked. If in "A" above you evaluated
	other sources as well, you must check AT LEAST ONE of the boxes " NO " to conclude that the source,
	as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the

☐ The source, as described in this application, <u>does not</u> constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision	on, apply the applicable
requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major of	r minor PSD source, and
whether this modification is a major or a minor PSD modification. It may be helpful to refer to the pro-	cedures for Determining
the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review	ew Workshop Manual to
determine if the revision is subject to PSD review.	
A. This facility is:	
X a minor PSD source before and after this modification (if so, delete C and D belo	ow).
\square a major PSD source before this modification. This modification will make th	is a PSD minor

B. This facility is one of the listed 20.2.74.501 Table I – PSD Source Categories. The "project" emissions for this modification are not significant since the source is not an existing major source. The "project" emissions listed below represent the site-wide emissions. The site was not a major PSD source before the project and the project is not major in and of itself. The after-project emissions will continue to be minorwith respect to PSD permitting. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

an existing PSD Major Source that has never had a major modification requiring a BACT analysis.
 an existing PSD Major Source that has had a major modification requiring a BACT analysis

a. NOx: 10.17 TPY
b. CO: 47.76 TPY
c. VOC: 18.48 TPY
d. SOx: 1.20 TPY
e. PM: 91.83 TPY
f. PM10: 31.23 TPY
g. PM2.5: 4.91 TPY
h. Fluorides: N/A
i. Lead: 0.0003 TPY

source.

j. Sulfur compounds (listed in Table 2): N/A

a new PSD Major Source after this modification.

k. GHG: 14156.80 TPY

C. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered. N/A, the site is not an existing major source.

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply. For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:

For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. Here are examples: a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Form-Section 13 last revised: 5/8/2023 Section 13, Page 2 Saved Date: 12/20/2024

Example of a Table for State Regulations:

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)	
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.	
				If subject, this would normally apply to the entire facility.	
20.2.3 NMAC	Ambient Air Quality Standards	Yes	Facility	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.	
	NMAAQS		Title V applications, see exemption at 20.2.3.9 NMAC		
			The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018.		
				If subject, this would normally apply to the entire facility.	
20.2.7 NMAC	Excess Emissions	Yes	Facility	If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation this applies. This would not apply to Notices of Intent since these are not permits.	
			This regulation may apply if,		
			this is an application for a notice of intent (NOI) per 20.2.73 NMAC,		
				if the activity or facility is a fugitive dust source listed at 20.2.23.108.A NMAC, and if the activity or facility is located in an area subject to a mitigation plan pursuant to 40 CFR 51.930.	
		No for permitte			As of January 2019, the only areas of the State subject to a mitigation plan per 40 CFR 51.930 are in Doña Ana and Luna Counties.
20.2.23	Fugitive Dust		mitte d ities, Facility sible	Sources exempt from 20.2.23 NMAC are activities and facilities subject to a permit issued pursuant to the NM Air Quality Control Act, the Mining Act, or the Surface Mining Act (20.2.23.108.B NMAC.	
NMAC	Control	facilities, possible for NOIs		20.2.23.108 APPLICABILITY: A. This part shall apply to persons owning or operating the following fugitive dust sources in areas requiring a mitigation plan in accordance with 40 CFR Part 51.930 (1) disturbed surface areas or inactive disturbed surface areas, or a combination thereof, encompassing an area equal to or greater than one acre; (2) any commercial or industrial bulk material processing, handling, transport or storage operations. B. The following fugitive dust sources are exempt from this part: (1) agricultural facilities, as defined in this part; (2) roadways, as defined in this part; (3) operations issued permits pursuant to the state of New Mexico Air Quality Control Act, Mining Act or Surface Mining Act; and (4) lands used for state or federal military activities. [20.2.23.108 NMAC - N, 01/01/2019]	
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	Yes	АРН1, АРВН1	This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers. Choose all that apply: This facility has new gas burning equipment (external combustion emission sources, such as gas fired boilers and heaters) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit This facility has existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit Note: "New gas burning equipment" means gas burning equipment, the construction or modification of which is commenced after February 17, 1972.	

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.34 NMAC	Oil Burning Equipment: NO₂	N/A	N/A	This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers. This facility has oil burning equipment (external combustion emission sources, such as oil fired boilers and heaters) having a heat input of greater than 1,000,000
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	N/A	N/A	million British Thermal Units per year per unit. This regulation could apply to existing (prior to July 1, 1974) or new (on or after July 1, 1974) natural gas processing plants that use a Sulfur Recovery Unit to reduce sulfur emissions. See 'Guidance and Clarification Regarding Applicability of 20.2.35 NMAC' located with the Air Quality Bureau's Permit Section website guidance documents.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	N/A	N/A	This regulation could apply to storage tanks at petroleum production facilities, processing facilities, tanks batteries, or hydrocarbon storage facilities.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	N/A	N/A	This regulation could apply to sulfur recovery plants that are not part of petroleum or natural gas processing facilities.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	N/A	N/A	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: Include the construction status of applicable units as "New", "Existing", "Relocation of Existing", or "Reconstructed" as defined by this Part in your justification: Check the box for the subparts that are applicable: 113 – Engines and Turbines 114 – Compressor Seals 115 – Control Devices and Closed Vent Systems 116 – Equipment Leaks and Fugitive Emissions 117 – Natural Gas Well Liquid Unloading 118 – Glycol Dehydrators 119 – Heaters 120 – Hydrocarbon Liquid Transfers 121 – Pig Launching and Receiving 122 – Pneumatic Controllers and Pumps 123 – Storage Vessels 124 – Well Workovers 125 – Small Business Facilities 126 – Produced Water Management Unit
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	APH1	This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC.
20.2.70 NMAC	Operating Permits	N/A	Facility	If subject, this would normally apply to the entire facility. Applies if your facility's potential to emit (PTE) is 100 tpy or more of any regulated air pollutant other than HAPs; and/or a HAPs PTE of 10 tpy or more for a single

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				HAP or 25 or more tpy for combined HAPs; is subject to a 20.2.79 NMAC nonattainment permit; or is a facility subject to a federal regulation that requires you to obtain a Title V permit such as landfills or air curtain incinerators.
				Include both stack and fugitive emissions to determine the HAP's PTE regardless of the facility type.
				If your facility is one of those listed at 20.2.70.7(2)(a) through (aa) state which source type your facility is and count both fugitive and stack emissions to determine your PTE. If your facility is not in this (a) through (aa) list, count only stack emissions to determine your PTE.
				Landfills and Air Curtain Incinerators are not Title V Major Sources, but it would apply pursuant to 20.2.70.200.B NMAC.
20.2.71 NMAC	Operating Permit Fees	N/A	Facility	If subject to 20.2.70 NMAC and your permit includes numerical ton per year emission limits, you are subject to 20.2.71 NMAC and normally applies to the entire facility.
				If subject, this would normally apply to the entire facility.
20.2.72 NMAC	Construction Permits	Yes	Facility	Could apply if your facility's potential emission rate (PER) is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard (does not include VOCs or HAPs); if the PER of lead is 5 tpy or more; if your facility is subject to 20.2.72.400 NMAC; or if you have equipment subject to 40 CFR 60 Subparts I and OOO, 40 CFR 61 Subparts C and D.
				Include both stack and fugitive emissions to determine PER.
				If subject, this would normally apply to the entire facility.
20 2 72	NOI & Emissions			A Notice of Intent application 20.2.73.200 NMAC could apply if your facility's PER of <u>any</u> regulated air pollutant, including VOCs and HAPs, is 10 tpy or more or if you have lead emissions of 1 tpy or more. Include both fugitive and stack emissions to determine your PER.
20.2.73 NMAC	Inventory Requirements	Yes	Yes Facility	You could be required to submit Emissions Inventory Reporting per 20.2.73.300 NMAC if your facility is subject to 20.2.73.200, 20.2.72, or emits more than 1 ton or lead or 10 tons of PM10, PM2.5, SOx, NOx CO, or VOCs in any calendar year.
				All facilities that are a Title V Major Source as defined at 20.2.70.7.R NMAC, are subject to Emissions Inventory Reporting.
	1			If subject, this would normally apply to the entire facility.
				If you are an existing PSD major source you are subject to the applicability determination requirements at 20.2.74.200 NMAC to determine if you are subject to a PSD permit, before commencing actual construction of any modifications at your facility. Complete the applicability determination in Section 12 of the application. If you are constructing a new PSD major source or are proposing a major modification to an existing PSD major source, you must obtain a PSD permit. Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do
20.2.74 NMAC	Permits — Prevention of Significant Deterioration (PSD)	N/A	Facility	not apply to the PSD permit regulation. Choose which applies and delete the rest. See NMACS 20.2.74.7.AE and AG Major Modification and Major Stationary Source, 20.2.74.200 Applicability, and 20.2.74.201 Exemptions.
				20.2.74.7.AG(1) A stationary source listed in Table 1 of this Part (20.2.74.501 NMAC) which emits, or has the potential to emit, emissions equal to or greater than one hundred (100) tons per year of any stack and fugitive emissions (as defined) of any regulated air pollutant; or 20.2.74.7.AG(2) A stationary source not listed in Table 1 of this Part (20.2.74.501 NMAC) and which emits or has the potential to emit stack emissions of two hundred fifty (250) tons per year or more of any regulated pollutant; or 20.2.74.7.AG(3) A physical change that would occur at a stationary source not otherwise qualifying under paragraphs (1) or (2) of subsection if the change would

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				constitute a major stationary source by itself (e.g. an increase of 250 tpy or more); or 20.2.74.300.D a source or modification that becomes a major stationary source or major modification solely due to a relaxation in any enforceable limitation established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then this part shall apply to the source or modification as through construction had not yet commenced.
				20.2.74.200.7.AG(5) The fugitive emissions of a stationary source shall not be included in determining for any of the purposes of this section whether it is a major stationary source, unless the source belongs to one of the stationary source categories found in Table 1 of this Part (20.2.74.501 NMAC) or any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the Act.
20.2.75 Construction Tes	Facility	If subject, this would apply to the entire facility. It is not necessary to include each low level regulatory citation for this regulation. This regulation applies if you are submitting an application pursuant to 20.2.72, 20.2.73, 20.2.74, and/or 20.2.79 NMAC.		
NWAC	IMAC Permit Fees	racincy	If this is a 20.2.73 NMAC application it is subject to the filing fee at 20.2.75.10 NMAC. If this is a 20.2.72, 20.2.74, and/or 20.2.79 NMAC application it is subject to 20.2.75.10, 11 permit fee, and 11.E annual fees. You are not subject to the 75.11.E annual fees if you are subject to 20.2.71 NMAC.	
20.2.77 NMAC	New Source Performance	Yes	Units subject to 40 CFR 60	This is a stationary source which is subject to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Slandards for HAPS	No	Units Subject to 40 CFR 61	This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61.
				If subject, this would normally apply to the entire facility. If you are an existing nonattainment major source pursuant to 20.2.79.7.V NMAC you are subject to the applicability determination requirements at 20.2.79.109 NMAC to determine if you are subject to a nonattainment permit, before commencing actual construction of any modifications at your facility. If you are constructing a new nonattainment major source or are proposing a major modification to an existing nonattainment major source, you must obtain a nonattainment permit.
20.2.79 NMAC	Permits – Nonattainment Areas	N/A	Facility	Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do not apply to the nonattainment permit regulation. Choose which applies and delete the rest. See NMACS 20.2.79.7.U Major Modification and 7.V Major Stationary Source. 20.2.79.109.A(1) A major stationary source or major modification that will be located within a nonattainment area so designated pursuant to Section 107 of the Federal Act and will emit a pollutant subject to a National Ambient Air Quality Standard for which it is major and which the area is designated nonattainment; or 20.2.79.109.A(2) A major stationary source or major modification that will be located within an area designated attainment or unclassifiable pursuant to Section 107 of the Federal Act and will emit a regulated pollutant subject to a National Ambient Air Quality Standard for which it is major and the ambient impact of such pollutant would exceed any of the significance levels in 20.2.79.119.A NMAC at any location that does not meet any national ambient air quality standard for the same pollutant.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.80 NMAC	Stack Heights			Usually not applicable for TV If applies: Cited as applicable in NSR Permit XXX.
20.2.82 NMAC	MACT Standards for source categories of HAPS	N/A	Units Subject to 40 CFR 63	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

Example of a Table for Applicable Federal Regulations (Note: This is not an exhaustive list):

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. This applies if you are subject to 20.2.70, 20.2.72, 20.2.74, and/or 20.2.79 NMAC.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	Units subject to 40 CFR 60	Applies if any other Subpart in 40 CFR 60 applies.
NSPS 40 CFR60.90, Subpart I	Subpart I, Standards of Performance for Hot Mix Asphalt Facilities	Yes		 (a) The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems. (b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.
NSPS 40 CFR60.670 Subpart OOO	Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants			(a) The provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Title V Sources (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an <u>Operational Plan to Mitigate Emissions During Startups</u> , <u>Shutdowns</u> , <u>and Emergencies</u> defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Sources: By checking this box and certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
Title V (20.2.70 NMAC), NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Sources: By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standard and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

No alternative operating scenarios are expected.

Air Dispersion Modeling

- Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
- 2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app form.html) for more detailed instructions on SSM emissions modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC).	Х
See #1 above. Note: Neither modeling nor a modeling waiver is required for VOC emissions.	
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

Ш	See attached, approved modeling waiver for all pollutants from the facility.
	See attached, approved modeling waiver for some pollutants from the facility.
\boxtimes	Attached in Universal Application Form 4 (UA4) is a modeling report for all pollutants from the facility.
	Attached in UA4 is a modeling report for some pollutants from the facility.
	No modeling is required.

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

Not applicable since this is a new permit.

Form-Section 17 last revised: 8/15/2011 Section 17, Page 1 Saved Date: 12/20/2024

Section 20

Other Relevant Information

Other relevant information. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

Relevant information for Section 1-C in form UA1: Facility Input Capacity & Production Rate

, ^	Spriant Flaint								
1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)								
а	a Current Hourly: Daily: Annually:								
b	b Proposed Hourly: 400 tons Daily: 4800 tons (as modeled) Annually: 700,000 tons								
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)								
а	a Current Hourly: Daily: Annually:								
b	Proposed	Hourly: 400 tons	Daily: 4800 tons (as modeled)	Annually: 700,000 tons					

Recycled Asphalt (RAP) Plant (Part of Crushing Plant)

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)						
а	Current	Annually:					
b Proposed Hourly: 40 tons Daily: 624 tons (as modeled) Annually: 1400 tons							
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)						
а	a Current Hourly: Daily: Annually:						
b	Proposed	Hourly: 40 tons	Daily: 624 tons (as modeled)	Annually: 1400 tons			

Crushing Plant

Asphalt Plant

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)							
а	Current	Hourly:	Annually:					
b	b Proposed Hourly: 600 tons Daily: 9360 tons (as modeled) Annually: 3,505,752 ton							
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)							
а	a Current Hourly: Daily: Annually:							
b	b Proposed Hourly: 600 tons Daily: 9360 tons (as modeled) Annually: 3,505,752 tons							

Wash Plant

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)						
а	a Current Hourly:		Daily:	Annually:			
b	Proposed	Hourly: 300 tons	Daily: 4680 tons (as modeled) Annually: 700,800 to				
2		facility's maximum produc	ction rate, specify units (reference here and list capacities	es in Section 20, if more room is required)			
2 a		facility's maximum produc	ction rate, specify units (reference here and list capacitie	es in Section 20, if more room is required			

Company Name: GCC Sun City Materials, LLC

Section 22: Certification

I. Frank May Good hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience. Signed this 2 day of Lanuary 2025 upon my oath or affirmation, before a notary of the State of J/2/2025 General Man Ager Scribed and sworn before me on this 2nd day of January 5th day of April , 2028 1/2/2025 JAIME RAMIREZ My Notary ID # 128945043 Notary's Printed Name Expires April 5, 2028

Air Dispersion Modeling Report Form UA4

Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16	.6-A: Identification				
1	Name of facility:	GCC Vado Site			
2	Name of company:	GCC Sun City Materials, LLC			
3	Current Permit number:	Existing Operations - Two rock crushing lines (2112-M1 and 942- M1-R1) - Recycled asphalt product (RAP)/rock crusher (GCP-2-4384) - Hot mix asphalt plant (GCP-3-4449) - Concrete batch plant (0943-R1) – To be Decommissioned To be consolidated into a single minor source permit (Permit # To be Determined)			
4	Name of applicant's modeler:	Shawn Haven			
5	Phone number of modeler:	832-561-5336			
6	E-mail of modeler:	shaven@ensafe.com			

16	-B: Brief		10 Hz 7577				
1	Was a modeling protocol submitted and approved?	Yes⊠	No□				
2	2 Why is the modeling being done? Demonstrate compliance as part of minor NSR construction Other (describe below permit						
	Describe the permit changes relevant to the modeling.						
3	 Replacement of equipment and reconfiguration of crushing operations currently authorized by permits 2112-M1 and 942-M1-R1 Ability for all site operations to operate 24 hours a day, 7 days a week, 52 weeks a year 						

4	What geodetic datum was used in the modeling?	NAD83					
5	How long will the facility be at this location?	Permanent					
6	Is the facility a major source with respect to Prevention of Sign	Yes□	No⊠				
7	Identify the Air Quality Control Region (AQCR) in which the facility is located						
	List the PSD baseline dates for this region (minor or major, as a	ppropriate).					
_	NO ₂	08/02/1995 (minor source)					
8	SO ₂						
	PM10	06/16/2000 (minor source)					
_	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).						
9	There are no Class I areas within 50 km of the facility.						
10	Is the facility located in a non-attainment area? If so describe below Yes□ No⊠						
11	Describe any special modeling requirements, such as streamline permit requirements.						
11	None						

16-C: Modeling History of Facility Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers). Latest permit and modification Comments number that modeled the Date of Permit **Pollutant** pollutant facility-wide. N/A CO N/A NO₂ 1 N/A SO₂ N/A H_2S 9/17/2013 2112-M1 PM2.5 9/17/2013 2112-M1 PM10 N/A Lead N/A Ozone (PSD only) NM Toxic Air N/A **Pollutants** (20.2.72.402 NMAC)

16-D: Modeling performed for this application

						submitted with t				
	Choose the analysis we				ipplicable for th	at pollutant, i.e., (culpability analysis	assumes F	ROI and c	umulative
	Pollutant ROI		Cumulative analysis		Culpability analysis	Waiver	Waiver approved		Pollutant not emitted or not changed.	
ĺ	со		×							
	NO ₂			\boxtimes						
1	SO ₂				\boxtimes					
	H ₂ S								×	
	PM2.5					×				
	PM10					×				
	Lead									
	Ozone									
	State air to (20.2.72.40 NMAC)									
							y		'	
16-	E: New	Mexi	co tox	ic air po	ollutants r	nodeling	der medicijmistre	moneted	THE HER	uni de la composición dela composición de la composición dela composición de la composición de la composición de la comp
1	List any Ne application None		o toxic air	pollutants (NMTAPs) from	Tables A and B in 2	20.2.72.502 NMAC	that are n	nodeled 1	for this
		List any NMTAPs that are emit below, if required. None					orrection factor. A	dd additio	nal rows	to the table
2	Pollutant		on Rate ds/hour)			Stack Height (meters)	Correction Fact	or I	mission i Correction	•
				In the second		2				
16-	F: Mod	eling	option	S criss is	+ 25 milylu 20 g	u ar restament re	graden six english	Enjaj III		
1	Was the la	test vers	ion of AER	MOD used v	with regulatory	default options? I	f not explain below	v. Yes 🗆		No⊠
	AERMOD V	ERSION	22112 was	used with	regulatory defa	ılt options.				
16	C. C									ar riefeind
	G: Surr	ouna	ing sou	rce mo	aeiing	er appropriese),				Part of the X
1	Date of sur	roundin	g source re	trieval	0	8/01/2024				
2	If the surro sources mo table below	odeled di	iffer from t	he invento	y provided. If ch	Quality Bureau wa nanges to the surr	s believed to be in ounding source in	accurate, o	describe l ere made	how the , use the
	AQB Source	e ID	Description	n of Correct	ions					

Multiple	Sources 138E15, 138E25, 138E26, 138E27, 138E33, 138E34, 138E35, 138E40, 138E41, 138E42, 138E43, 138E44, and 138E45 were removed as these were located over 200 km from the site.
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16-	H: Building and structure downwa	ish		
1	How many buildings are present at the facility?	2 buildings at the Asphalt Plant. 2 buildi	ngs at the Read	y-Mix Plant.
2	How many above ground storage tanks are present at the facility?	7 tanks at the Asphalt Plant. 2 tanks in t	he Ready-Mix P	lant.
3	Was building downwash modeled for all buildings and	tanks? If not explain why below.	Yes□	No⊠
	The versabind silo at the Asphalt plant was not model	ed as a downwash structure given it has a	n air gap under	neath it.
4	Building comments			

16-	I: Recepto	rs and n	nodeled p	property boun	dary			
1	"Restricted Area continuous wall grade that woul area within the Area is required receptors shall	a" is an area t ls, or other co ld require spe property ma d in order to e be placed wit	to which public ontinuous barri ecial equipmen y be identified exclude recepto thin the proper	c entry is effectively pre- iers approved by the Di it to traverse. If a large with signage only. Pub ors from the facility pro- ty boundaries of the fa r at the facility that def	ecluded. Effective bar epartment, such as ru property is complete lic roads cannot be property. If the facility decility.	agged phy ely enclos art of a R does not b	ysical terrain wi ed by fencing, a estricted Area.	tn a steep restricted A Restricted
	Wire fence							
2	Receptors must Are there publi	t be placed al c roads passi	ong publicly ac ng through the	ccessible roads in the re restricted area?	estricted area.		Yes□	No⊠
3	Are restricted a The fenceline c	oordinates in	y coordinates in cluded in the n	ncluded in the modelin modeling files correspo	ng files? Inded to the restricted	d area	Yes⊠	No□
	Describe the re	ceptor grids	and their spaci	ng. The table below ma	ay be used, adding ro	ws as ne	eded.	
4	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comme		
-	Fenceline Grid	Irregular polygon	50 meters (m)	0 m	0 m			
	Fine Grid	Irregular polygon	50 m	50 m	100 m			
	Medium Grid	Irregular polygon	100 m	100 m	1,000 m			

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	Course Grid	Irregular polygon	500 m	1,000 m	5,000 m	
	Describe recep	tor spacing al	ong the fenc	e line.		
5	Receptors alon	g the fencelin	e follow the	fenceline and are s	spaced 50 meters between i	eceptors.
	Describe the P	SD Class I area	receptors.			
6	None					

16	-J: Sensitive areas	Fig. 1	Slow
1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.	Yes□	No⊠
3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes□	No⊠

	16	-K: Mod	deling	Scenar	ios	GIP EVEL	and the same	AUTO E	their syl	nama a parte	LONG TO MAKE	Leapars
1		rates, time etc. Altern	es of day, to ative oper	imes of yea	ar, simultar	neous or a	Iternate ond to all	peration	of old and	arios include u d new equipme sal Application	ent during tra	ansition periods,
					ons at maxi PM10 and P		rly rates a	ınd maxir	mum annı	ual rates. Scala	ar factors we	re applied for
2		Which sce	nario prod	uces the h	ighest conc	entration	? Why?					
2		Base scena	rio									
3		(This quest the factors	tion pertain used for o	ns to the ": alculating		MONTH", um emiss	"HROFDY on rate.)	" and rela		r sets, not to	Yes⊠	No□
4		If so, descr	ibe factors	for each (group of so	urces. List	the source	es in eac	h group be ection 16	efore the factor -K if it makes fo	r table for th ormatting ea	at group. sier.)
5	Hour of Day	Asphalt Plant Factor	Crushin g Plant Factor	Hour of Day	Asphalt Plant Factor	Crushi ng Plant Factor						

2	0.5	0.65	13	0.5	0.65					
3	0.5	0.65	15	0.5	0.65					
4	0.5	0.65	16	0.5	0.65					
5	0.5	0.65	17	0.5	0.65					
6	0.5	0.65	18	0.5	0.65					
7	0.5	0.65	19	0.5	0.65					
8	0.5	0.65	20	0.5	0.65					
9	0.5	0.65	21	0.5	0.65					
10	0.5	0.65	22	0.5	0.65					
11	0.5	0.65	23	0.5	0.65					
12	0.5	0.65	24	0.5	0.65					
	If hourly,	variable e	mission ra	ites were u	sed that were n	ot described a	bove, descr	ibe them bel	ow.	
	Were dif below.	ferent emi	ssion rate	s used for s	hort-term and a	nnual modeli	ng? If so des	cribe	Yes⊠	No□
			b	li	um annual emis	siens net en	mavimum h	ourly omissis	nns v 8 760	

16	-L: NO ₂ I	Modeling		
	Which type Check all th	s of NO ₂ modeling were used? aat apply.		
		ARM2		
1		100% NO _X to NO₂ conversion		
		PVMRM		
		OLM		
		Other:		=
_		e NO₂ modeling.		
2		es at the Asphalt Plant emit NOx – the baghouse stack (Source ID APBH1) and hor our and annual averaging periods were modeled.	t oil heater stac	ck (Source ID
3	Were defa	ult NO₂/NOx ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not and justify the ratios used below.	Yes⊠	No□
4	Describe th	e design value used for each averaging period modeled.		
7		h eighth high e Year Annual Average		

16-	-M: Particulate Matter Modeling
	Select the pollutants for which plume depletion modeling was used.

.		Tivizis (came	lative analysis)			
	×	PM10 (Cumul	ative and Culpability analy	ysis)		
		None				
	Describe	the particle size d	stributions used. Include 1	the source of information.		
	AP-42 pai	rticle size distribu	ion for asphalt plants and	particle size distribution for aggreg	ate handling.	
	Sources t	hat emit at least 4	0 tons per year of NO _x or	or at least 40 tons per year of SO ₂ ? at least 40 tons per year of SO ₂ are and must account for secondary	Yes□	No⊠
	Was seco	ondary PM modele	d for PM2.5?		Yes□	No⊠
	If MERPs below.	were used to acco	ount for secondary PM2.5	fill out the information below. If an	other method was	used describe
	NO _x (ton)	/yr)	SO ₂ (ton/yr)	[PM2.5]annual	[PM2.5] _{24-h}	our
6		back Distar			S. Availy8 in an ar	
6	Portable between	sources or source the emission sou	s that need flexibility in th	eir site configuration requires that s a boundary (e.g. fence line) for both al location.		
6	Portable between	sources or source the emission sou . Describe the set	s that need flexibility in th ces and the restricted are	a boundary (e.g. fence line) for both		
6	Portable between locations Not appli	sources or source the emission sour Describe the set icable the requested, m	s that need flexibility in th ces and the restricted are back distances for the initi	a boundary (e.g. fence line) for both	n the initial locatio	n and future

16-	O: PSD Increment and Source IDs			
1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I modeling files. Do these match? If not, provide a cross-refere numbers if they do not match below.		Yes□	No⊠
	Unit Number in UA-2	Unit Number in Modeling Files		
	See Table 3: Cross-reference of Identification Numbers			
2	The emission rates in the Tables 2-E and 2-F should match the these match? If not, explain why below.	e ones in the modeling files. Do	Yes⊠	No□
3	Have the minor NSR exempt sources or Title V Insignificant A been modeled?	ctivities" (Table 2-B) sources	Yes□	No⊠

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Vado Site Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID	Description
	APBH1		Baghouse stack
	APH1		Hot oil heater stack
	APDC1		Versabind/Lime Silo dust collector
	APTK1	N/A	Asphalt Tank 22
	APTK2	N/A	Asphalt Tank 23
	APTK3	N/A	Asphalt Tank 24
	APPMILL		Pugmill
	APSCRN1		Scalping Screen
	APSCRN2		RAP Screen
	APCR1		RAP Gator Crusher
		APTR1A	FEL transfer to cold feed bin A
74		APTR1B	FEL transfer to cold feed bin B
	APTR1	APTR1C	FEL transfer to cold feed bin C
		APTR1D	FEL transfer to cold feed bin D
		APTR1E	FEL transfer to cold feed bin E
Asphalt Plant		APTR2A	Cold Feed Bin A Transfer to Conveyor 1
		APTR2B	Cold Feed Bin B Transfer to Conveyor 1
	APTR2	APTR2C	Cold Feed Bin C Transfer to Conveyor 1
		APTR2D	Cold Feed Bin D Transfer to Conveyor 1
		APTR2E	Cold Feed Bin E Transfer to Conveyor 1
	APTR3		Conveyor 1 Transfer to Conveyor 2
	APTR4		Conveyor 2 Transfer into Pugmill
	APTRS		Pugmill Transfer to Conveyor 3
	APTR6		Scalping Screen Transfer to Conveyor 4
	APTR7		RAP FEL Transfer to Cold Feed Bin
	APTR8		RAP Cold Feed Bin transfer to Conveyor 5
	APTR9		RAP Screen Transfer to Conveyor 6
	APTR10		Drum mixer Transfer to Silo Conveyor 7
	APTR11		Conveyor 7 Transfer to Silo filling
	APTR12		Silo truck loadout
	APTR13		AP Versabind/Lime Silo transfer To Conveyor 8

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Vado Site
 Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID	Description
	CPCR1		CP HSI Crusher
	CPCR2		CP Cone Crusher Patriot 300
	CPCR3		CP Cone Crusher Patriot 200
	CPSCRN1		CP Screen Guardian 6202
	CPSCRN2		CP Screen Guardian 8203
	CPSCRN3		CP Screen Patriot 200
	CPTR1		CP Screen Guardian 6202 transfer to Conveyor 2
	CPTR2		CP Screen Guardian 6202 transfer to Conveyor 1
	CPTR3		CP Conveyor 1 transfer to Stacker 1
	CPTR4		CP Conveyor 2 transfer to Stacker 2
	CPTR5		CP Screen Guardian 8203 transfer to Conveyor 3
	CPTR6		CP Screen Guardian 8203 transfer to Conveyor 4
	CPTR7		CP Screen Guardian 8203 transfer to Conveyor 5
	CPTR8		CP Conveyor 3 transfer to Stacker 3
	CPTR9		CP Conveyor 4 transfer to Stacker 4
	CPTR10		CP Conveyor 5 transfer to Stacker 5
4 1 2 1 2 1 2 1 2 1	CPTR11		CP Screen Patriot 200 transfer to Conveyor 6
Crusning Plant	CPTR12		CP Screen Patriot 200 transfer to Conveyor 7
	CPTR13		CP Screen Patriot 200 transfer to Conveyor 8
	CPTR14		CP Conveyor 6 transfer to Stacker 6
	CPTR15		CP Conveyor 7 transfer to Stacker 7
	CPTR16	11	CP Conveyor 8 transfer to Stacker 8
	CPTR17		Tunnel Conveyor Transfer to Crusher 3 Feed Conveyor
	CPTR18		Tunnel Conveyor Transfer to Screen 2 Feed Conveyor
	CRSTK1		CP Stacker 1 Transfer into Stockpile 1
	CRSTK2		CP Stacker 2 Transfer into Stockpile 2
	CRSTK3		CP Stacker 3 Transfer into Stockpile 3
	CRSTK4		CP Stacker 4 Transfer into Stockpile 4
	CRSTK5		CP Stacker 5 Transfer into Stockpile 5
	CRSTK6		CP Stacker 6 Transfer into Stockpile 6
	CRSTK7		CP Stacker 7 Transfer into Stockpile 7
	CRSTK8		CP Stacker 8 Transfer into Stockpile 8
	WASHTR1		WP Transfer to Wash Plant Feed Hopper
	WASHTR2		WP Transfer from Feed Hopper to Wash Plant Feed Conveyor

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Vado Site

Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID	Description
	SP9		Stockpile 9 (Asphalt Plant - Sand)
	SP10		Stockpile 10 (Asphalt Plant - Aggregate)
	SP11		Stockpile 11 (Asphalt Plant - Aggregate)
Stockpiles	SP12		Stockpile 12 (Asphalt Plant - Aggregate)
	SP13		Stockpile 13 (Asphalt Plant - RAP)
	SP18		Stockpile 18 (Main RAP Stockpile)
	HR3		Trucks hauling material from Stockpile 12 to cold feed bins - unpaved road
	HR4		Trucks hauling material from Stockpile 11 to cold feed bins - unpaved road
	HRS		Trucks hauling material from Stockpile 9 to cold feed bins - unpaved road
	HR6		Trucks hauling material from Stockpile 10 to cold feed bins - unpaved road
	HR7		Trucks hauling material from Stockpile 13 to RAP bin - unpaved road
	HR8		Asphalt Trucks - paved road
naul Koaus	OGN	НЭП	Trucks hauling RAP from offsite to Main RAP Stockpile - unpaved segment
	CNIT	НЭР	Trucks hauling offsite aggregates sale - paved segment
	HR10	H10	Trucks hauling offsite aggregates sale - paved road
	HR11	H11	Trucks to the Quarry Pit - unpaved road
	HR12	H12	Trucks hauling offsite materials into site - paved road
	HR13	H13	Loaders from Main RAP Stockpile to Crushing - unpaved road

FEL = Front-end-loader RAP = Recycled Asphalt Pavement

	Which units consume in	Which units consume increment for which pollutants?									
	Unit ID	NO ₂	SO ₂		PM10	PM2.5					
5	GCC Site (all except haul roads, which are existing)				x						
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).										
6	Are all the actual install This is necessary to veri increment consumption	fy the accuracy of PS	D increment mod	eling. If not p	please explain how	Yes⊠	No□				

16-	P: Flare Modeling	VERENSIPE		
1	For each flare or flaring scer	nario, complete the following		
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)

16-	Q: Volume and Related Sources						
1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes□	No⊠				
	Describe the determination of sigma-Y and sigma-Z for fugitive sources.						
2	Sigma-Y for multiple adjacent volume sources, the apparent length of the volume was divide Sigma-Y for single volume sources, the apparent length was divided by 4.3. Sigma-Z for elevated volume sources, the volume height was divided by 4.3	d by 2.15.					
	Describe how the volume sources are related to unit numbers.						
3	Or say they are the same.						
	ey are the same.						
	Describe any open pits.						
4	None						
5	Describe emission units included in each open pit.						
)	None						

that was used	rovided background concentrations used? Identify the background station non-NMED provided background concentrations were used describe the data	Yes⊠	No□
CO: N/A			
CO. N/A			
	Park (350130021)		
PM2.5: Las Cru	ices Distric Office (350130025)		
PM10: Anthor			
SO ₂ : Bloomfie	d(350450009)		
Other:			
Comments:			
Were backgro	und concentrations refined to monthly or hourly values? If so describe below.	Yes□	No⊠
Las Cruces	ded meteorological data was not used describe the data set(s) used below. Disc	Yes⊠ cuss how mis	No□ sing data we
THE RESIDENCE OF THE PARTY OF T			
-T: Terraiı			
	terrain used in the modeling? If not, describe why below.	Yes⊠	No□
Was complex		Yes⊠	No□
	Comments: Were background S: Meteol Was NMED provi	Were background concentrations refined to monthly or hourly values? If so describe below. -S: Meteorological Data Was NMED provided meteorological data used? If so select the station used. Las Cruces	Were background concentrations refined to monthly or hourly values? If so describe below. Yes□ -S: Meteorological Data Was NMED provided meteorological data used? If so select the station used. Las Cruces If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how miss

File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
GCC Vado Repermitting_CO ROI	CO-1Hr and 8-Hr	ROI
GCC Vado Repermitting_NO2 ROI	NO ₂ -1Hr and Annual	ROI
GCC Vado Repermitting_NO2 Cumulative	NO₂-1Hr	Cumulative
GCC Vado Repermitting_NO2 PSD Incr	NO ₂ -Annual	PSD Increment
GCC Vado Repermitting_PM25_hrROI1yr	PM _{2.5} -24hr and Annual	ROI
GCC Vado Repermitting_PM2.5_24hr_5yr_12-5- 24	PM _{2.5} -24Hr	Cumulative, Culpability
GCC Vado Repermitting_PM2.5_Ann_5yr_12-5-24	PM _{2.5} Annual	Cumulative, Culpability
GCC Vado Repermitting_PM10_hrROI1yr	PM ₁₀ -24Hr	ROI
GCC Vado Repermitting_PM10_24hr5yr Cum	PM ₁₀ -24Hr	Cumulative, Culpability
GCC Vado Repermitting_PM10_24hr_Culp	PM ₁₀ -24Hr and Annual	PSD Increment Culpability
GCC Vado Repermitting_SO2 ROI	SO2-1Hr, 3Hr, 24Hr, and Annual	ROI, 1-hr Cumulative

-V: PSD New or Major Modification Applications		
A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes□	No□
If not, did AQB approve an exemption from preconstruction monitoring?	Yes□	No□
Describe how preconstruction monitoring has been addressed or attach the approved precommonitoring exemption.	nstruction mo	nitoring or
Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes□	No□
	additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)? If not, did AQB approve an exemption from preconstruction monitoring? Describe how preconstruction monitoring has been addressed or attach the approved precomonitoring exemption. Describe the additional impacts analysis required at 20.2.74.304 NMAC.	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)? If not, did AQB approve an exemption from preconstruction monitoring? Pescribe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring exemption. Describe the additional impacts analysis required at 20.2.74.304 NMAC.

16-W: N	16-W: Modeling Results	esults								
н	If ambient stan required for the significance leve describe below.	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.	exceeded bec show that th specific pollut	ause of surroun e contribution f :ant. Was culpal	iding sources, a c rom this source i bility analysis per	ulpability an s less than th formed? If so	ysis is	Yes⊠	No	
	The culps	inaly s an	and that the representations	eceptors with e	sis found that the receptors with exceedances were caused by emission sources on the same property. Id receptors on the same property are not "ambient air" for the purposes of the modeling analysis. The	s caused by e air" for the	emission sou purposes of	rces on the s the modelin	same proper g analysis. T	ty. Those he
	culpabilit	culpability analysis remov	ed those sour	ces; and, the co	emoved those sources; and, the corresponding receptors were no longer exceeding the standards	ptors were	ο longer ex	ceeding the	standards.	
2	Identify t	Identify the maximum cor	centrations f	rom the modeli	ım concentrations from the modeling analysis. Rows may be modified, added and removed from the table	may be mo	dified, adde	d and remov	ed from the	table
	below as	below as necessary.								
Pollutant, Time	Modeled	Modeled Conc. with	Secondary	Background	Cumulative	Value of	Percent		Location	
Period and Standard	raciiity conc. (μg/m3)	Sources (µg/m3)	(µg/m3)	(µg/m3)	(kg/m3)	Standard (µg/m3)	of Standard	UTM E (m)	UTM N (m)	Elevation (ft)
CO, 1-Hr, SIL	323.2	N/A	N/A	N/A	N/A	2000	16	345850	3557400	1231.59
CO, 8-Hr, SIL	68.28	N/A	N/A	N/A	N/A	200	14	346050	3557200	1241.16
SO2, 1-Hr, NAAQS		8.15	N/A	3.5	11.7	196.4	9	345850	3557400	1231.59
SO2, 3-Hr, SIL	2.81	N/A	N/A	N/A	N/A	25	11	345900	3557450	1234.15
SO2, 24-Hr, SIL	69:0	N/A	N/A	N/A	N/A	5	14	346050	3557200	1241.16
SO2, Annual, SIL	0.08	N/A	N/A	N/A	N/A	1	∞	345831.5 3	3557372. 19	1230.85
NO2, 1-Hr, NAAQS		26.92	N/A	89.0	115.9	188.03	62	346650	3557550	1267.31
NO2, Annual, SIL	0.7	N/A	N/A	N/A	N/A	1	70	345907.3 2	3557308. 82	1236.00
NO2, Annual, PSD		16.61	N/A	N/A	N/A	25	29	345050	3556700	1204.27
Increment										

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	Elevation (ft)	1208.42		1206.08	0.00		1204 69			1208 27	79.67		1230.07	
	Ele			_	-						_		_	
Location UTM E UTM N (m) (m)		3555900		2556100	OOTOCCC		3555000	006666		3555000	0000000		3557404	
		346600		007375	242700		375800	25000		375000	ODCC+C		345793.6	
Percent	of Standard	66		70	2/		A T	3		0 00	23.3		66	
Value of	Standard (µg/m3)	6		25	CC		17	ì		150	430		90	
Cumulative Conc.	(µg/m3)	8.95		33.0	33.3		*			1/0 8	110.0		N/A	
Background Conc.	(µg/m3)	5.2 11 N/A			117.3	C:/TT		N/A						
Secondary	(µg/m3)	N/A		VIN	N/A		V/N	۲/ <u>۱</u>		V/N	W/N1		N/A	
Modeled Conc. with Surrounding	Sources (µg/m3)	3.79		20 62	25.33		976			22.49	32.40		29.62	
Modeled Facility Conc.	(µg/m3)									20.4	4.67		Not modeled	
Pollutant, Time	Period and Standard	PM2.5, Annual,	NAAQS	PM2.5, 24-	Hr, NAAQS	PM10,	Annual,	PSD	Increment	PM10, 24-	Hr, NAAQS	PM10, 24-	Hr PSD	Increment

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16-X: Summary/conclusions

A statement that modeling requirements have been satisfied and that the permit can be issued.

The modeling was performed following the requirements in the NMED Air Dispersion Modeling Guidelines Revised December 2023. The modeled emission concentrations are below the standards as show in Table 16-W Modeling Results. The modeling requirements have been satisfied and the permit can be issued.

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