

May 31, 2022

Erika Guerra
Martin Marietta
(via email)

Subject: Risk Reduction Audit and Plan
San Diego Air Pollution Control District
AB2588 Health Risk Assessment Lakeside HMA 2015 RY

Dear Erika:

Attached you will find the Risk Reduction Audit and Plan for San Diego County Air Pollution Control District. As you will find the plan includes an application to modify the Permit to Operate to establish an enforceable limit for Nickel. The report will be submitted electronically to the district and yourself. If you have any questions, please do not hesitate to contact us at 714-587-2595 x102.

Regards,



Susana Mitchell
Taylor Environmental Services, Inc

May 31, 2022

Stephen Amberg (*via email*)
San Diego County Air Pollution Control District
10124 Old Grove Rd, San Diego, CA 92131

Subject: California Commercial Asphalt (Site ID 01212)
Lakeside Hot Mix Asphalt Facility
Risk Reduction Audit and Plan

Dear Stephen:

California Commercial Asphalt received the Health Risk Assessment (HRA) approval letter on February 2nd, 2022. The approval letter indicated the Residential and Occupational Acute Health Hazard Index were greater than 1.0. As a result, public notice and a risk reduction audit and plan is required. Attached you will find the risk reduction and audit plan. This plan includes an application to modify the Permit to Operate to establish enforceable permit limits for nickel as this constituent is the risk driver.

We trust this submittal meets your approval. If you have any questions, please do not hesitate to contact us at 714-587-2595 x102.

Regards,



Susana Mitchell
Taylor Environmental Services, Inc

Cc: Erika Guerra, California Commercial Asphalt

**SAN DIEGO COUNTY
AIR POLLUTION CONTROL DISTRICT**
10124 Old Grove Rd.
San Diego, CA 92131

**CALIFORNIA COMMERCIAL ASPHALT ENTERPRISES LLC
LAKESIDE FACILITY
SITE ID 01212
RISK REDUCTION AUDIT AND PLAN
REPORTING YEAR 2015**

Prepared For:

California Commercial Asphalt Enterprises, LLC
P.O. Box 639069
San Diego, CA 92145

Project No.: HANSN-20-2725
Contact: Susana Mitchell
Date: May 31, 2022



**TAYLOR
ENVIRONMENTAL
SERVICES, INC.**

5122 Bolsa Avenue, Suite 101
Huntington Beach, CA 92649
Phone: (714) 587-2595 Fax: (714) 587-2598
www.tayloresinc.com

**SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT
APPLICATION FEE ESTIMATE**

Applicant Site ID/EIF ID:	APCD2012-SITE-01212	NA
Applicant DBA:	California Commercial Asphalt Enterprises LLC	Fee Schedule: RRP
		Reason for Submittal: Modification
APCD Engineer:	Jim Swaney	Existing Site? Yes
Equipment Description:	Risk Reduction Audit and Plan (APCD2020-HRA-0049)	Estimate Date: 5/26/2022

ACTIVITY	EMPLOYEE CLASSIFICATION	LABOR HOURS	COST	SUBTOTAL
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Initial Evaluation Fee - T&M (Rule 40(d)(3)(i))

Authority to Construct	Project Engineer		\$0.00		
	Senior Engineer		\$0.00	\$0.00	ETM
Permit to Operate	Project Engineer	25.0	\$4,925.00		
	Senior Engineer	5.0	\$1,190.00	\$6,115.00	ETM

T&M Application - No Fixed Fee, see above

Authority to Construct/Permit to Operate		N/A	T+M	\$0.00	ETM
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Additional Evaluation and Processing Fees (Rule 40(d)(5))

New Source Review	Project Engineer		\$0.00		NSR
	Meteorologist		\$0.00	\$0.00	AQI
Prev. Significant Deterioration	Project Engineer		\$0.00	\$0.00	PSD
Toxics New Source Review (Health Risk Assessment)	Project Engineer		\$0.00		
	Meteorologist		\$0.00		
	Air Resources Specialist		\$0.00		
	HRA Base Estimate	Standard	\$2,124.00	\$2,124.00	TNS
Title V	Project Engineer		\$0.00		
	Senior Engineer		\$0.00	\$0.00	TIV
NESHAPS/ATCM/NSPS	Project Engineer		\$0.00	\$0.00	HAP
CEQA	Project Engineer		\$0.00	\$0.00	CEQ
AB 3205 Notice	Project Engineer		\$0.00		
	Public Notice Costs		\$0.00	\$0.00	AB3
Equipment subject to Rule 11(a)(3)	Project Engineer		\$0.00		
	Senior Engineer		\$0.00	\$0.00	R51
H&SC 42301(e)	Project Engineer		\$0.00		
	Senior Engineer		\$0.00	\$0.00	HSC
Testing or Test Witness	Project Engineer		\$0.00		STF
	Senior Chemist		\$0.00		ad-hoc
	Associate Chemist		\$0.00		ad-hoc
	Source Test Technician		\$0.00		ad-hoc
Fixed Test Fee Sched.	NA	Fixed Testing Fees	\$0.00	\$0.00	ad-hoc

Miscellaneous Fees

Processing Fee (Rule 40(d)(1)(ii))		1.0	\$85	\$85.00	EFX
Renewal Fee (Rule 40(e)(2)(ii))		N/A	N/A	\$0.00	REN
Emissions Fee (Rule 40(e)(2)(iv))			N/A	\$0.00	EMF

NOTES:

ESTIMATE TOTAL: **\$8,324.00**

- (1) To avoid possible processing delays, this document should be submitted with your application forms.
- (2) The fees contained in this estimate are based on APCD Rule 40. Final fee may be more or less than this estimate (see Rule 40(d)(1)(iii)).
- (3) Emissions determined to be greater than 5 tons per year will be charged a emission fee on a ton per year basis. (see Rule 40 (e)(2)(iv)(A))
- (4) Fees paid by credit card will be assessed a 2.19% processing fee (see Rule 40(c)(5))
- (5) Federal government payments made through DFAS: Please reference the above Site ID Record number in your DFAS submittal.
- (6) This estimate is valid only for applications received by the District by June 30, 2022

GENERAL PERMIT OR REGISTRATION APPLICATION INSTRUCTIONS



GENERAL

The owner or designated agent must complete and sign this form and file it with one copy of all attachments, required supplementary forms, drawings and the appropriate fee.

The appropriate fee (payable to “County of San Diego APCD”) must be submitted with this Permit/Registration Application. Application processing will not begin until the full required fee has been received. Excess fees will be refunded upon completion of the application process. If you do not know the appropriate fee or need to discuss the information required, please contact the District at (858) 586-2600 and ask for assistance in determining an application fee.

REASON FOR SUBMITTAL OF APPLICATION

- New Installation - check if you are installing equipment that does not currently have a District Permit to Operate (PTO)
- Existing Unpermitted Equipment or Rule 11 Change - check if applying for existing equipment that is currently unpermitted or equipment that is now subject to District Rules due to Rule 11 changes
- Modification of Existing Permitted Equipment - check if you are making a change to equipment with a current District Permit to Operate. (List affected PTO Record ID(s) – Note: PTO Record ID Format: APCD2015-PTO-123456)
- Amendment to Existing Application - check if you are amending a previously submitted application form or current Authority to Construct. (List affected Application Record ID(s) Application Record ID Format: APCD2015-APP-123456)
- Change of Equipment Location - check if you are moving non-portable equipment with a current District Permit to Operate. (List affected PTO Record IDs)
- Change of Equipment Ownership - check if you wish to transfer ownership of a District Permit to Operate to a different owner. **Provide proof of ownership with application.** (List affected PTO Record ID(s))
- Change of Permit Conditions - check if you are proposing changes only to conditions for an existing permit to operate. (List affected PTO Record ID(s) on line 12)
- Change Permit to Operate Status to Inactive - Used to place a permit in inactive (non-operational) status. (List affected PO #(s))
- Banking Emissions - check if you are applying for emission reduction credits
- Registration of Portable Equipment - check this line if you are applying for registration of portable equipment
- Other - check for any action not covered
- List affected Application/PTO Record ID(s) - list any permits or open applications affected by the proposed modification/change

TRADE SECRET INFORMATION AND PUBLIC AVAILABILITY OF APPLICATIONS

All information submitted with this application is considered a public record and is accessible online while under review unless otherwise designated as Trade Secret.

If your application contains information you consider to be trade secret or otherwise confidential, you must indicate so on this form and attach a separate document justifying the request as required by District Rule 176. Only this application form and the justification will be made available online if this status is requested; however, the District may make additional information available if it is publicly requested and determined not to qualify as trade secret as described in District Rules 176 and 177.

APPLICANT INFORMATION

Please enter the requested addresses, including the address to be used to send the Authority to Construct, Permit to Operate, and invoices.

EQUIPMENT/PROCESS INFORMATION

Check Stationary or Portable depending upon the type of equipment for which you are filing an application. Also check Yes if the equipment is portable and will operate more than 180 consecutive days at a single site. Otherwise, check No.

Please enter the location where the equipment is or will operate. If the application is for a portable operation please enter the address that will be used to store the portable unit.

INDEMNIFICATION

In accordance with District Rule 40(d)(8)(vi), the applicant, to the extent the applicant is at fault in causing liability to the District, shall indemnify the District (including its agents, officers and employees) from any claim, action, liability, or proceeding to attack, set aside, void or annul the applicant’s project or any of the proceedings, acts or determinations taken, done or made as a result of the District’s processing and/or approval of the project. The applicant's obligation to indemnify shall include, but not be limited to, payment of all court costs and attorneys' fees, costs of any judgments or awards against the District, damages, and/or settlement costs, which arise out of the District’s processing and/or approval of the applicant’s project, except that an applicant shall only be responsible for indemnifying the District according to the proportion of fault caused by the applicant, as determined by a court. By signing and submitting this application, an applicant agrees to such indemnification.

Internal Use Only	
APP ID: APCD	-APP/CER-
SITE ID: APCD	-SITE-

**GENERAL PERMIT OR
REGISTRATION
APPLICATION FORM**



Submittal of this application does not grant permission to construct or to operate equipment except as specified in Rule 24(c).

REASON FOR SUBMITTAL OF APPLICATION:

- | | | |
|--|---|--|
| <input type="checkbox"/> New Installation | <input type="checkbox"/> Existing Unpermitted Equipment or Rule 11 Change | <input type="checkbox"/> Modification of Existing Permitted Equipment |
| <input type="checkbox"/> Amendment to Existing Authority to Construct or Application | <input type="checkbox"/> Change of Equipment Location | <input type="checkbox"/> Change of Equipment Ownership (please provide proof of ownership) |
| <input checked="" type="checkbox"/> Change of Permit Conditions | <input type="checkbox"/> Change Permit to Operate Status to Inactive | <input type="checkbox"/> Banking Emissions |
| <input type="checkbox"/> Registration of Portable Equipment | <input type="checkbox"/> Other (Specify) _____ | |

List affected APP/PTO Record ID(s): APCD2014-PTO-002199

APPLICANT INFORMATION

Name of Business (DBA) California Commercial Asphalt

Does this organization own or operate any other APCD permitted equipment at this or any other adjacent locations? Yes No

If yes, list assigned Site Record IDs listed on your Permits APCD2003-SITE-04824

Name of Legal Owner (if different from DBA) _____

Equipment Owner

Authority to Construct Mailing Address

Name: Hanson Aggregates Pacific Southwest, d.b.a. California Commercial Asphalt	Name: Hanson Aggregates Pacific Southwest, d.b.a. California Commercial Asphalt
Mailing Address: P.O. Box 639069	Mailing Address: P.O. Box 639069
City: San Diego State: CA Zip: 92145	City: San Diego State: CA Zip: 92145
Phone: ()	Phone: ()
E-Mail Address:	E-Mail Address:

Permit To Operate Mailing Address

Invoice Mailing Address

Name: Hanson Aggregates Pacific Southwest, d.b.a. California Commercial Asphalt	Name: Hanson Aggregates Pacific Southwest, d.b.a. California Commercial Asphalt
Mailing Address: P.O. Box 639069	Mailing Address: P.O. Box 639069
City: San Diego State: CA Zip: 92145	City: San Diego State: CA Zip: 92145
Phone: ()	Phone: ()
E-Mail Address:	E-Mail Address:

EQUIPMENT/PROCESS INFORMATION: Type of Equipment: **Stationary** **Portable, if portable please enter below the**

equipment storage address. If portable, will operation exceed 12 consecutive months at the same location Yes No

Equipment Location Address 12451 Vigilante Rd City Lakeside State: CA

Parcel No. _____ Zip 92040 Phone () _____ E-mail: ryan.merritt@martinmarietta.com

Site Contact Ryan Merrit Phone (619)540-1943

General Description of Equipment/Process Hot Mix Asphalt Production

Application Submitted by Owner Operator Contractor Consultant Affiliation Taylor Environmental Services, Inc.

EXPEDITED APPLICATION PROCESSING: **I hereby request Expedited Application Processing and understand that:**

a) Expedited processing will incur additional fees and permits will not be issued until the additional fees are paid in full (see Rule 40(d)(8)(iv) for details) b) Expedited processing is contingent on the availability of qualified staff c) Once engineering review has begun this request cannot be cancelled d) Expedited processing does not guarantee action by any specific date nor does it guarantee permit approval.

This application contains trade secret or confidential information (see reverse for instructions)

I hereby certify that all information provided on this application is true and correct.

Date May 31, 2022
Print Name Erika Guerra Company Hanson Aggregates MidPacific
Phone (734) 383-1010 E-mail Address erika.guerra@martinmarietta.com

Date _____ Staff Initials: _____ Amt Rec'd \$ _____ Fee Schedule _____

RNP: _____ EMF: _____ NBF: _____ TA: _____

GEN_APP_Form_RevDate: Aug. 2017

10124 Old Grove Rd. – San Diego - California 92131-1649 – (858) 586-2600
www.sdapcd.org

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Part I EXECUTIVE SUMMARY

This application, prepared by Taylor Environmental Services, on behalf of California Commercial Asphalt Enterprises (CCAЕ), LLC details the risk reduction audit and plan (RRAP) for the Hot Mix Asphalt plant located at 12451 Vigilante Rd, Lakeside, CA 92040.

On February 2, 2022, CCAE received approval of the 2015 Health Risk Assessment (HRA). The resulting HRA determined a residential risk of 1.10 for the Acute Health Hazard Index and a maximum occupational Acute Health Risk of 1.08. Pursuant to Rule 1210 (e)1, since the HRA resulted in a risk above the significant risk threshold equal to or greater than 1.0 a risk reduction audit and plan is required.

In accordance with San Diego Air Pollution Control District Rule 2010 (e) (1)

(1) Within 180 days of receipt of written notice from the Air Pollution Control Officer that a stationary source's most recent approved health risk assessment indicates health risks at or above the significant risk threshold(s), the owner or operator shall submit to the Air Pollution Control Officer, for completeness review and approval, a risk reduction audit and plan. For the purpose of this section, the significant risk threshold for maximum individual cancer risk shall be:

- (i) equal to or greater than 10 in one million for emissions inventory years 2018 and later, or*
- (ii) equal to or greater than 100 in one million for emissions inventory years prior to 2018.*

The risk reduction audit and plan shall comply with the requirements of Subsection (e)(2). Such risk reductions shall be accomplished within five years of the date the plan is approved by the Air Pollution Control Officer unless an extension has been granted pursuant to Subsections (e)(4) or (e)(5).

(2) The risk reduction audit and plan submitted by the owner or operator shall be accompanied by appropriate application(s) to implement the plan and contain all of the following:

- (i) The name and location of the stationary source.*
- (ii) A facility risk characterization which includes an updated emissions inventory report and health risk assessment, if the risk due to total facility emissions has increased to above or decreased to below the levels indicated in the previously approved health risk assessment.*
- (iii) The identification of all the emission unit(s) for which the owner or operator proposes to reduce toxic air contaminant emissions and the identification of the airborne toxic risk reduction measures proposed for implementation to reduce such emissions, and the anticipated emission and health risk reductions.*

- (iv) *A schedule for implementing the proposed airborne toxic risk reduction measures within five years. The schedule shall include specific increments of progress towards implementing the airborne toxic risk reduction measures.*

- (v) *A demonstration, including supporting documentation such as emission calculations, that the proposed airborne toxic risk reduction measures will reduce or eliminate toxic air contaminant emissions from the stationary source. The demonstration shall be made through analogy with the approved health risk assessment for the stationary source or by submission of a revised forecast risk assessment. The demonstration also shall include any foreseeable new or increased emissions of toxic air contaminants from the stationary source and the estimated health risks resulting from such new or increased emissions during the period approved for implementation of the risk reduction audit and plan.*

- (vi) *A schedule for providing progress reports on reductions in emissions of toxic air contaminants and estimated health risks achieved under the implemented plan. Progress reports shall include a technology review, as applicable, that provides an update on new emissions reducing technologies, and shall be provided not less frequently than within 12 months from when the plan is approved, and annually thereafter, and may be incorporated into emission inventory report updates required pursuant to Section 44344 of the California Health and Safety Code.*

Part II Project Description

A. Business Background

- | | | |
|----|----------------------|---|
| 1. | Name | California Commercial Asphalt Enterprises, LLC |
| 2. | Owner | Martin Marietta |
| 3. | Contact | Erika Guerra - Environmental Director
Martin Marietta
9865 Via Excelencia, Ste 200
San Diego, CA 92126
(734) 383-1010 |
| 4. | Facility Address | 12451 Vigilante
Lakeside, CA 92040
(Site ID 01212) |
| 5. | Business Description | Hot Mix Asphalt Facility |

B. Description of Facility

California Commercial Asphalt Enterprises, LLC operates a Hot Mix asphalt facility located at 12451 Vigilante in Lakeside, CA 92040 (Site ID 01212). Refer to Figure 1 below for a vicinity map detailing the location of the site. The facility produces State of California Standard Specification asphalt concrete mixes, which typically consist of $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{8}$ " asphalt concrete mix.



Figure 1 - Vicinity Map

Part III Risk Reduction

A. Emission Sources

California Commercial Asphalt Enterprises, LLC Lakeside Facility contains the following emission units that contribute to public health risks above the significant mitigation levels:

- Aggregate Conveying and Screening (area source)
- Recycled Asphalt Conveying and Screening (area source)
- Stockpiles (area source)
- Asphalt Filling and Loadout (point source)
- Asphalt Dryer Baghouse (point sources)
- Asphalt Storage Tank (point sources)
- Hot Oil Heater (point sources)
- Vaporizers (point sources)
- Unpaved and paved haul roads (line volume sources)

B. Risk Contribution

According to the 2015 HRA approval, dated February 2, 2022, the asphalt dryer contributes the most to the total health risk at the facility, as seen in Table 1.

Table 1 - Emission Unit Health Risk Contribution

Source	Maximum Acute % Contribution
Asphalt Dryer	100%

Specific toxic air contaminants (TACs) that contribute the most to overall health risk under the Acute risk scenario is details in Table 2.

Table 2 - Specific TAC Health Risk Contribution

TAC	Maximum Acute
Nickel	81%
Formaldehyde	14%

The largest contributing source to the total acute risk is non-volatile emissions (metals) from the asphalt dryer stack. These metals are naturally present in the aggregate materials and asphalt oil used in the production of Hot Mix Asphalt. The RRAP is required due to the acute hazard index over the threshold of 1.0. The focus of the RRAP will be nickel from the asphalt dryer as this contributes 81% of the Acute risk.

C. Risk Reduction Evaluation

Nickel from the asphalt dryer is based on production throughput and emission factors from AP42. The emission factors utilized in the HRA were default emission factors which are known to be very conservative. On April 19, 2022, Montrose Air Quality Services on behalf of CCAE submitted a source test protocol to test the metals from the stack to establish emission rates from the asphalt dryer. The source test was completed on May 5th and 6th, 2022. Preliminary engineering testing performed on March 11, 2022, showed a significant reduction in emissions. Refer to attachment "A" for a copy of the preliminary test results. Table 3 details the comparison of default factors versus the preliminary test results.

Table 3 - Emission Factor Comparison

Toxic Air Contaminate	AP42 Table 11.1-12 Default Emission Rate (lb/ton)	Preliminary Test Results (lb/ton)
Nickel	6.30E-05	2.00E-07

CCAЕ has completed a revised 2019 Health Risk Assessment and is awaiting approval from the San Diego Air Pollution Control District. Although there has been an increase in production since the 2015 Health Risk Assessment, the decrease due to the reduction in emissions utilizing the actual test data from the preliminary source test results in an acute risk below 1.0

D. Risk Reduction Schedule

This submittal includes an application to modify the Permit to Operate to include an enforceable limit for nickel. An acute health risk assessment was completed to determine a nickel emission rate which will result in a residential and work hazard index of less than 1.0. Based on this analysis it was determined a nickel emission rate of 5.0E-7 will result in an Acute score of less than 1.0. A factor of safety was added to the source tested number. The revised Acute Analysis with the new nickel emission rate is included with this submittal. The revised acute HARP files can be found in a dropbox. The link to that dropbox and the files is:

<https://www.dropbox.com/scl/fo/roazdrnjsj95wc0dqbz6b/h?dl=0&rlkey=tsn54zg5lj5nf7ghqod61yi5s>

Table 4 is the summary of the Acute Analysis prior to the change in nickel emission rate.

Table 4 - Existing Acute Analysis Prior to Nickel Emission Rate Change

Description	X	Y	Receptor No.	Hazard Index
Resident 11850 Hi Hopes Dr.	505616.8	3640408	712	1.10
Resident 11850 Hi Hopes Dr.	505618.5	3640415	2264	1.06
Resident 12286 Hwy 67	505718.5	3640115	2020	1.03
Resident 11828 Johnson Lake Rd	505818.5	3639915	1858	1.01
Resident 11828 Johnson Lake Rd	505816.8	3639908	509	1.00
Worker 12525 Hwy 67	505818.5	3641215	2924	1.05
Worker 12525 Hwy 67	505816.8	3641208	1042	1.06
Worker 12525 Hwy 67	505818.5	3641165	2883	1.02
Worker 12525 Hwy 67	505868.5	3641165	2884	1.08
Worker 12525 Hwy 67	505918.5	3641165	2885	1.01
PMI (Off-Site)	506218.5	3640865	2645	3.57

Table 5 details the summary of the revised Acute Analysis after the change in the nickel emission rate.

Table 5 - Revised Acute Analysis After change in Nickel Emission Rate

Description	X	Y	Receptor No.	Hazard Index
Resident 11850 Hi Hopes Dr.	505616.8	3640408	712	0.19
Resident 11850 Hi Hopes Dr.	505618.5	3640415	2264	0.18
Resident 12286 Hwy 67	505718.5	3640115	2020	0.18
Resident 11828 Johnson Lake Rd	505818.5	3639915	1858	0.17
Resident 11828 Johnson Lake Rd	505816.8	3639908	509	0.17
Worker 12525 Hwy 67	505818.5	3641215	2924	0.18
Worker 12525 Hwy 67	505816.8	3641208	1042	0.18
Worker 12525 Hwy 67	505818.5	3641165	2883	0.17
Worker 12525 Hwy 67	505868.5	3641165	2884	0.18
Worker 12525 Hwy 67	505918.5	3641165	2885	0.17
PMI (Off-Site)	506218.5	3640865	2645	0.61

The applicant is proposing to demonstrate compliance with the established emission rate by source testing every four years as this is the same schedule of the quad annual submittals of AB2588 requirements.

E. Permit Modification

CCAEC is requesting to modify the Permit to Operate to include an enforceable permit limit for nickel to reduce the facility Acute risk below 1.0. The potential to emit for nickel of 5.0E-7 lb/ton based on preliminary source test results and a safety factor. The potential to emit calculations are detailed below.

Table 6 – Annual Potential to Emit

Pollutant	Production (tons/yr)		Emission Rate (lb/ton)		Annual (lb/yr)
Nickel	630,000	X	5.0E-7	=	0.315

Table 7 - Hourly Potential to Emit

Pollutant	Production (tons/hr)		Emission Rate (lb/ton)		Hourly (lb/hr)
Nickel	350	X	5.0E-7	=	1.75E-4

ATTACHMENT "A"
PRELIMINARY SOURCE TEST RESULTS

PLANT: Martin Marietta
SOURCE: Dryer Exhaust
METHOD: CARB Method 436
DATE: 3/11/22
STANDARD TEMP (EPA = 68 DEG.)

68

RUN NUMBER

1

FIELD DATA INPUTS:

BAROMETRIC PRESSURE (Pb)	29.97
STACK DIAMETER (Ds)	43.90
PITOT CORRECTION (Cp)	0.84
SQRT DELTA P	0.649
STACK TEMP (DEG. F)	271
STATIC PRESSURE (Ps)	-0.20
VOLUME SAMPLED (Vm)	88.613
METER TEMPERATURE (DEG. F)	78.4
METER GAMMA	0.994
DELTA H (INCHES WATER)	1.9
LIQUID COLLECTED (VLC)	463.6
% O2	20.6
%CO2	0.60
SAMPLING TIME (MINUTES)	120
NOZZLE DIAMETER (INCHES)	0.287

PRODUCTION DATA:

ASPHALT PROCESSED (TONS/HR)	250
-----------------------------	-----

FLOW RESULTS:

VOLUME SAMPLED, DSCF	86.944
VOLUME SAMPLED, DSCM	2.462
MOISTURE IN SAMPLE (CF)	21.88
MOISTURE (%)	20.11
MOLECULAR WEIGHT (DRY)	28.92
MOLECULAR WEIGHT (WET)	26.72
STACK VELOCITY (FT/SEC)	44.52
ACTUAL CFM	28,080
STANDARD CFM	20,318
DRY STANDARD CFM	16,232
ISOKINETIC RATE (100% ±10%)	104.4

TRACE ELEMENTS

Nickel	ug in sample	2.00
	ug/m3	0.81
	lbs/hr	0.000049
	lbs/ton of asphalt	0.00000020
	mg/hr	22.40
	mg/ton of asphalt	0.090