Application for: Authority to Construct Permit to Operate Support Request

County of El Dorado Air Quality Management District
330 Fair Lane, Placerville, CA 95667
Phone: (530) 621-7501
Fax: (530) 295-2774
www.edcgov.us/AirQualityManagement

RESPONSIBLE COMPANY or OPERATOR	Company/Operator (Please Print or Type): Tahoe Asphalt, Inc.	Contact: Mike Plumer
	Mailing Address: P.O. Box 95	Title: Pres.
	City, State &ZIP Code: Alamo, CA. 94507	Phone: 925-933-6170
	Federal ID Number or SS Number: 68-0349779	E-Mail Address: mplumer@astound.net
FACILITY LOCATION	Name of Facility: Tahoe Asphalt	Facility Contact: Dale Linkous
	Street Address: 1104 Industrial Ave	Title: General Manager
	City: South Lake Tahoe	Phone: 530-541-0133
Send bill(s), permits and correspondences to:		☒ Responsible Company/Operator ☐ Facility Location

Type of Application (Check appropriate boxes)

- ☐ New Facility
- ☒ Modification of Existing Facility or Equipment
- ☐ Change of Ownership
  Existing Permit # _____
- ☐ Emission Reduction Credit
- ☐ AQMD Support Request
- ☐ Miscellaneous (explain below)

Is the facility location within 1000 feet from the boundary of a K-12 school? ☐ YES ☒ NO

Equipment Schedule of Operation	Hours/day: 8/12	Days/week: 5	Weeks/year: 26		
Estimated Construction Start Date: 5-1-16	Estimated Completion Date: 8-1-16	Estimated Start-up Date: 9-1-16			

Description of Project/Request (Attach supplemental forms and/or detailed equipment/emission information):

To improve our operation by upgrading our very dated (1964) plant. Both technically & environmentally.

→ "See attached Equip. Description"

Information submitted to obtain an Authority to Construct/Permit to Operate is public information unless specifically marked as trade secret or confidential by the applicant. Emission data is subject to disclosure regardless of any claim of trade secret or confidentiality.

Signature of Responsible Official/Person:
The Responsible Official/Person is the individual with the authority to certify this source will comply with all District requirements and conditions set forth in the permit and the Rules and Regulations of El Dorado County. I certify all information contained herein and submitted with this application is true, accurate and complete.

Signature: [signature] Date: 1-18-16

Printed Name: Michael L. Plumer Title: Pres.

DATE STAMP
RECEIVED
JAN 21 2016
AQMD

FOR EL DORADO COUNTY AQMD USE ONLY

AC No.:	APPLICATION APPROVED: 5-2-16 (DATE) LP (ENGINEER'S INITIALS)	
PO No.: 08-167	APPLICATION DENIED: DATE / ENGINEER'S INITIALS	

Tahoe Asphalt, Inc.

January 18, 2016

Equipment Description

Asphalt Concrete Plant Consisting of:

A. Bins (4), Aggregate Storage, 13' x 10' x 14' High
B. Feeders (4), Aggregate, 24" x 8', 12 HP Total (3 HP Each)
C. Conveyor, Aggregate, 30" x 90', 15 HP
D. Conveyor, Aggregate, 30" x 70', 20 HP
E. Drum-Mixer with "Rap Tube", 9' Dia x 49' L, 200 HP
F. Burner, Hauck SJPO/G1580 Powerstar (LOW NOx), 120 MM BTU/HR
G. Blower, 7,900 SCFM, 100 HP
H. Hot Oil Circulation Pump, 2 HP
I. Asphalt Plum, 7.5 HP
J. Elevator, Bucket, Hot Asphalt, 40 HP
K. Conveyor, Slat, Hot Asphalt, 3' x 35', 30 HP
L. Conveyor, Slat, Hot Asphalt, 3' x 12', 25 HP
M. Compressor, Air, 10 HP
N. Silos (3), Hot Asphalt Storage, 11' dia x 35' H, 100 Tons Capacity, vented to mixer burner
O. Conveyor, Slinger, 7.5 HP
P. Recycle Bin, 13' x 10' x 14' High, 24" x 8', 3 HP
Q. Scalping Screen, 4' x 10', 5 HP
R. Scalping Screen, 3' x 5', 2 HP
S. Recycle Conveyor, 24" x 100', 10 HP
T. Recycle Conveyor, 24" x 10', 5 HP
U. Recycle Auger, 20 HP
V. Conveyor, Reject, 24" x 12', 5 HP
W. Conveyor, Reject, 24" x 75', 15 HP
X. Storage Silos Exhaust Recovery System Equipped with 3,000 CFM Fan (5HP)
Y. APC Baghouse, Magnum size 16.5, pulse jet type, 8,640 sq. ft. cloth filter area consisting of dust screw (5HP), Fan (2 x 125 HP) and Madsen 60,000 ACFM Cyclone
Z. Liquid Asphalt Storage Tan with Heater, 30,000 Gal. Skid mounted tank. Heatec Hot Oil Heater Model HCS 230 (2.3 MBTU) S/N #H-85-105.

El Dorado County
Air Quality Management District
Baghouse, Dust Collector, or Bin Vent Filter Supplemental Form

Business Name: Tahoe Asphalt **Prepared By:** Mike Plumer **Date:** 1-18-16

Type of Device: (Baghouse, Dust Collector or Bin Vent Filter):	Baghouse
Manufacturer or Make:	Standard Havens
Model Number:	Magnum 16.5
Serial Number:	211-1730
Motor Power, hp:	2 X 125 HP
Motor, rpm:	1200 / 1800
Air Flow Rate, cfm:	51,840 ACFM
Air Inlet Diameter, in.:	52"
Filter Bags, quantity:	320
Filter Bags, size - width x length, in.:	6" X 116.6"
Filter Bags, Total Area, sq. ft.:	8,640
Air to Cloth Ratio, (cfm/total area of cloth):	6-1
Filter Material:	cloth
Method of Bag Cleaning, manual, auto., etc:	Auto Pulse Jet type
***Control Effectiveness, percent**	99.8%

List equipment associated with this unit:

Quantity	Size	Type (saw, sander, storage silo, etc)
1	60,000 ACFM	Madsen Cyclone

*** Provide the source of control effectiveness percent, and tell how it was measured.**
(Attach additional pages, if necessary)

*Per equip. & bag manufacters data along w/ actual Ca. permit from San Joaquin valley Air pollution control Dist.

From: **Aggregate Systems, Inc.** info@asiequipmentsales.com
Subject: Stationary Baghouse for sale on asiequipmentsales.com
Date: November 13, 2015 at 3:33 PM
To: mplumer@astound.net

Your Leading Provider of New & Used Asphalt, Concrete & Crushing Plants, Equipment & Components.

Phone: 615-494-1210

Stationary Baghouse

STANDARD HAVENS STATIONARY BAGHOUSE MAGNUM 16.5 SIZE 20 BAGS 320 (6' x 116.6") 8640 SQFT OF CLOTH 51,840 ACFM @6.1 2x125 HP MOTOR'S TO EXHAUST FAN SINGLE AUGER, TOP REMOVAL BAGS CONNECTING DUCT WORK * Unit Id 211-1730 "93613"

Location: Ducor, CA

Condition: USED

Price:

View Online

Shared by **Michael Plumer**, mplumer@astound.net

This Stationary Baghouse is for sale by Aggregate Systems, Inc.

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-2909-1-1 **EXPIRATION DATE:** 09/30/2012

EQUIPMENT DESCRIPTION:
79.6 MMBTU/HR MADSEN MODEL #481 HOT MIX ASPHALT BATCH PLANT CONTROLLED BY CYCLONE DUST COLLECTOR AND BAG HOUSE

PERMIT UNIT REQUIREMENTS

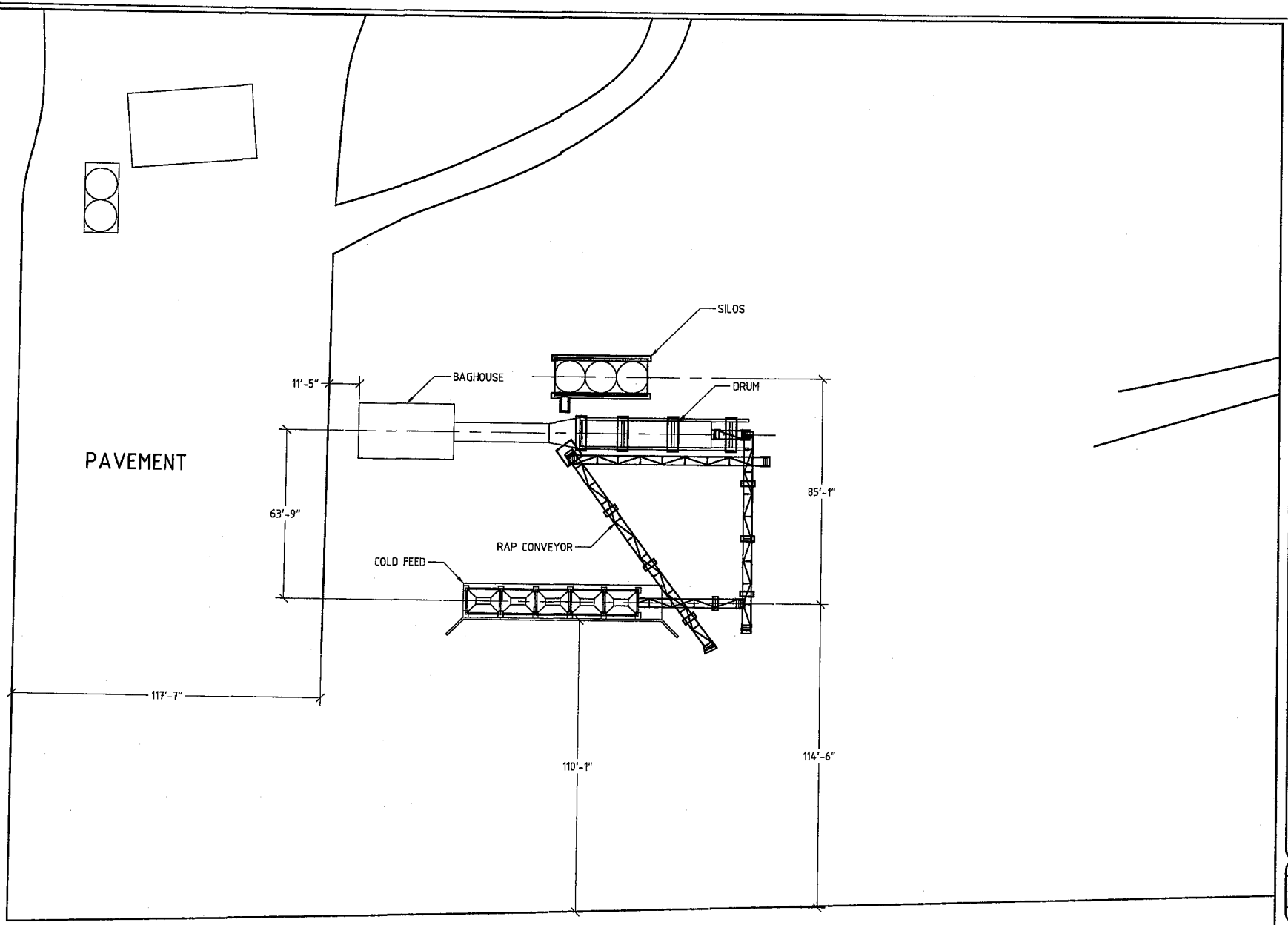
1. Operation shall include 6 cold aggregate bins, 76.9 MMBtu/hr dryer, screen, 4 hot bins, pug mill, weigh hopper, asphaltic concrete loadout with 40,800 gallon silo, and miscellaneous conveyors/bucket elevators. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Throughput shall not exceed 4200 tons/day. [District Rule 2201]
4. Only LPG fuel shall be used. Total fuel usage shall not exceed 9,000 gal/day. [District Rule 2201]
5. Hours of operation shall not exceed 12 hours/day. [District Rule 2201]
6. Stockpiled aggregate materials shall be maintained in an adequately moist condition to minimize dust emissions to less than Ringelmann 1 or 20% opacity. [District Rule 4101]
7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
8. Emission rates from dryer and batching operation shall not exceed the following: PM10: 14.58 lb/hr, SOx (as SO2): 0.01 lb/hr, NOx (as NO2): 9.92 lb/hr, VOC: 8.38 lb/hr and CO: 0.385 lb/mmbtu. [District Rule 2201]
9. Permittee shall maintain accurate daily records of operating schedule (hr/day), process rate (ton/day) and fuel usage (gal/day), and such records shall be made readily available for District inspection upon request for a period of five years. [District Rule 2201]

A-1

SITE PLAN

ASPHALT PLANT
TAHOE ASPHALT INC.
1104 INDUSTRIAL AVE.
SOUTH LAKE TAHOE, CA 96150

DATE	NO.	REVISIONS	BY



DATE	NO.	REVISIONS	BY

TAHOE ASPHALT

LAMARRE DESIGN SERVICES
INDUSTRIAL DRAFTING & DESIGN
1918 S. Paulson Rd. Suite #103
Turlock, CA 95380
Phone: (209)648-8874
Email: darrin@lamarredesign.com

PLANT LAYOUT
ASPHALT PLANT
TAHOE ASPHALT INC.
1104 INDUSTRIAL AVE.
SOUTH LAKE TAHOE, CA 96150

DATE: NOV. 13, 2015
SCALE: 1/16" = 1'-0"
DRAWN BY: D.M.L
APPROVED BY:

A-1.1

777 12TH STREET, 3RD FLOOR
SACRAMENTO, CA 95814-1908

SACRAMENTO METROPOLITAN

(916) 874-4800
FAX (916) 874-4899

AIR QUALITY
MANAGEMENT DISTRICT

PERMIT TO OPERATE

ISSUED TO: **GRANITE CONSTRUCTION COMPANY**

EQUIPMENT LOCATION: **900 WEST ELKHORN BLVD., RIO LINDA, CA 95673**

PERMIT NO.	EQUIPMENT DESCRIPTION
20400	ASPHALT CONCRETE BATCH PLANT CONSISTING OF:
1	A. BINS (5), AGGREGATE STORAGE, 13' x 10' x 14' HIGH
1	B. FEEDERS (5), AGGREGATE, 24" x 8', 15 HP TOTAL (3 HP EACH)
1	C. CONVEYOR, AGGRGATE, 30" x 90', 15 HP
1	D. CONVEYOR, AGGRGATE, 30" x 70', 20 HP
2	E. DRUM-MIXER WITH "RAP TUBE", 9' DIA X 49' L, 200 HP
2	F. BURNER, HAUCK SJPO/G1580 POWERSTAR (LOW NOx), 120 MM BTU/HR
2	G. BLOWER, 7,900 SCFM, 100 HP
1	H. HOT OIL CIRCULATION PUMP, 2 HP
1	I. ASPHALT PUMP, 7.5 HP
1	J. ELEVATOR, BUCKET, HOT ASPHALT, 40 HP
New	K. CONVEYOR, SLAT, HOT ASPHALT, 3' x 35', 30 HP
New	L. CONVEYOR, SLAT, HOT ASPHALT, 3' x 12', 25 HP
1	M. COMPRESSOR, AIR, 10 HP
Replacement	N. SILOS (3), HOT ASPHALT STORAGE, 11' DIA X 35' H, 100 TONS CAPACITY, VENTED TO MIXER BURNER
1	O. CONVEYOR, SLINGER, 7.5 HP
	~~P. RECYCLE BIN, 8.5' x 14.5' TAPERED TO DISCHARGE, 36" x 31', 10 HP~~
1	Q. SCALPING SCREEN, 4' x 10', 5 HP
New	R. SCALPING SCREEN, 3' x 5', 2 HP
New	S. RECYCLE CONVEYOR, 24" x 100', 10 HP
New	T. RECYCLE CONVEYOR, 24" x 10', 5 HP
New	U. RECYCLE AUGER, 20 HP
1	V. CONVEYOR, REJECT, 24" x 12', 5 HP

DATE REVISED: 11-06-2012
DATE ISSUED: 07-22-2011
DATE EXPIRES: 03-28-2013 (UNLESS RENEWED)

LARRY GREENE
AIR POLLUTION CONTROL OFFICER

BY: Felix Trujillo, Jr.

PERMIT NO.: 14606 & 20400

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PERMIT NO.	EQUIPMENT DESCRIPTION
	① W. CONVEYOR, REJECT, 24" x 75', 15 HP
	New - X. STORAGE SILOS EXHAUST REVOCERY SYSTEM EQUIPPED WITH 3,000 CFM FAN (5HP)
	~~Y. DETACHABLE SCREW CONVEYOR FOR THE BAGHOUSE~~
14606	~~APC BAGHOUSE, MAGNUM, SIZE 28, PULSE JET TYPE, 12,109 SQ. FT. CLOTH FILTER AREA. CONSISTING OF: DUST SCREW (5 HP), BLOWER (25 HP), FAN (200 HP), AND COMPRESSOR (50 HP.)~~

SUBJECT TO THE FOLLOWING CONDITIONS:

GENERAL

1. The equipment shall be properly maintained and operated in accordance with the manufacturer's recommendations at all times.
   [Basis: SMAQMD Rule 201, Section 405]

2. The Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials shall be permitted:
   A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate, and
   B. At reasonable times to have access to and copy any records required to be kept under terms and conditions of this Permit to Operate, and
   C. To inspect any equipment, operation, or method required in this Permit to Operate, and
   D. To sample emissions from the source or require samples to be taken.
   [Basis: SMAQMD Rule 201, Section 405]

3. This Permit to Operate does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the California Health and Safety Code or the Rules and Regulations of the Sacramento Metropolitan Air Quality Management District (SMAQMD).
   [Basis: SMAQMD Rule 201, Section 405]

4. The equipment shall not discharge such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
   [Basis: SMAQMD Rule 402, Section 301]

5. A legible copy of this Permit to Operate shall be maintained on the premises with the equipment.
   [Basis: SMAQMD Rule 201, Section 401]

EMISSIONS LIMITATIONS

6. The equipment shall not discharge into the atmosphere any visible air contaminant other than uncombined water vapor for a period or periods aggregating more than three minutes in any one hour which is as dark

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AIR QUALITY MANAGEMENT DISTRICT

or darker than Ringelmann No. 1 or equivalent to or greater than 20% opacity.
[Basis: SMAQMD Rule 401, Section 301]

7. Particulate matter concentration from the APC baghouse (P/O 14606) shall not exceed 0.04 grains per dry standard cubic foot, corrected to 12% CO_2.
[Basis: 40 CFR 60 Subpart I, Section 60.92(a)(1)]

8. The emissions from the asphalt plant shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Pollutant	Emission Factor (lb/ton)	Maximum Allowable Emissions (A)		
		(lbs/day)	(lbs/quarter)	(lbs/year)
NOx	0.022	88	5,500	22,000
VOC	0.00017	1	42	168
CO	0.13	520	32,500	130,000
SOx	0.0034	13.6	850	3,400
PM10	0.023	92	5,750	23,000
PM2.5	0.023	92	5,750	23,000
GHG (B)	117 lb/MMbtu	168 ton/day	15,456 ton/quarter	61,824 ton/year

(A) Emissions are based on a daily process rate of 4,000 tons/day, a quarterly process rate of 250,000 tons/quarter, and AP-42 emission factors for *Drum Mix Hot Mix Asphalt Plants*, Table 11.1-3,7,8 (3/04). Emission factors for NOx and VOC are based on a source test conducted on 8/31/05. PM2.5 emissions are assumed to be equal to PM10. GHG emission factor is expressed as CO_2e and is from EPA's Mandatory Reporting of Greenhouse Gases Rule (74 FR 56260), Tables C-1 & C-2.

(B) GHG emissions are based on the maximum rating of the burner (120 MMBtu/hr), 24 hours/day, 92 days/quarter and 365 days/year of operation.

The emissions from the stockpiles shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Pollutant	Emission Factor (lb/acre/day) (A)	Maximum Allowable Emissions (B)		
		(lbs/day)	(lbs/quarter)	(lbs/year)
PM10	1.3	7.8	718	2,847
PM2.5	0.195	1.2	110	438

(A) PM10 Emission factor is based on an uncontrolled emission factor of 6.3 lb/acre/day (AP-42 Table 8.19-1-1, 9/85) and an 80% control efficiency through the use of water spray equipment. AP-42 11.19.1 page 5 (11/95) states that water spray systems can reduce loading and wind erosion emissions from storage piles 80 to 90%. Therefore, an 80% control efficiency will be applied to the uncontrolled emission factor. The PM2.5 emission factor is based on a PM2.5/PM10 ratio of 0.15 derived from the *Background Document for Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors, Finalized11/1/06* (http://www.epa.gov/ttn/chief/ap42/ch13/bgdocs/b13s02.pdf).

(B) Emissions based on 6 acres for the stockpiles, 92 days/quarter of operation and 365 days/yr of operation.

5/27/16 LP
Per Brian Krebs:
AC conditions required source testing to be done as close to the max. capacity as possible. (4000 TPD & 250,000 TPQ)

PERMIT NO.: 14606 & 20400
Baghouse HMA 16464 originally

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AIR QUALITY MANAGEMENT DISTRICT

9. The total facility emissions shall not exceed the following limits:
[Basis: SMAQMD Rule 201, Section 405]

Pollutant	Maximum Allowable Quarterly Facility Emissions (A) (lb/quarter)
NOx	4,999

(A) Calculated in accordance with Attachment A.

EQUIPMENT OPERATION

10. The maximum production rate for the asphalt plant shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Limit	Maximum Allowable Operation	
	Daily (tons/day)	Quarterly (tons/quarter)
Maximum Allowable Production Rate	4,000	250,000

11. The air pollution control baghouse (P/O 14606) shall operate whenever the asphalt plant is in operation.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

12. Water sprays shall be installed at all transfer points.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

13. Water sprays shall be maintained in good working order and shall be operated as efficiently as possible so as to minimize air pollutant emissions.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

14. The asphalt plant shall use only natural gas as a fuel.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

15. The hot asphalt storage silos shall be vented to the mixer burner air inlet at all times for control of blue smoke from the silos.
[[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

16. Access roads, yards and stockpiles in the general area of this equipment shall be watered or otherwise treated to prevent fugitive dust generated by plant activities from being airborne beyond the property line from which the emissions originate.
[Basis: SMAQMD Rule 403, Section 301]

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RECORD KEEPING & REPORTING

17. The following record shall be continuously maintained on-site for the most recent three year period and shall be made available to the Air Pollution Control Officer upon request. Quarterly records shall be made available within 30 days following the end of the quarter.
[Basis: SMAQMD Rule 201, Section 405]

Frequency	Information to be Recorded
Daily	A. Amount of asphaltic concrete produced (tons/day).
Quarterly	B. Amount of asphaltic concrete produced (tons/quarter). C. Total facility NOx emissions calculated in accordance with the latest version of Attachment A (lb/quarter).

18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)
[Basis: SMAQMD Rule 201, Section 303.1]

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El Dorado County – Tahoe Asphalt

10-28-15

Driving forces to make changes/modication to the AC Plant:

1. To improve the operation by replacing and upgrading our very dated plant (1964). Tahoe Asphalt was fortunate enough to acquire a "NAPA" (National Asphalt Pavement Association) Diamond Achievement Award Plant that has been permitted by "SMAQMD" (Sacramento Metropolitan Air Quality Management District).
   To achieve such status the plant/site operations must achieve six aspects of excellence:
   a. appearance
   b. operations
   c. environmental practices
   d. safety
   e. permitting and regulatory compliance
   f. community relations

2. The ability to meet the newest standards set forth by both the State of California and Caltrans.
   a. The use of "RAP" (recycled asphalt pavement)
   b. Adherence to the newest AC standards set forth by the federal government and now adopted by Caltrans.

The new standard is known as performance graded asphalt along with the new "MPQP" (Material Plant Quality Program).

3. A continuous mix drum plant with storage silos vs. an outdated batch plant. It's very similar to comparing operating a car on the highway (i.e. smooth and steady) to operating a car in traffic (i.e. constant stop and go.) The efficiency for everything is greatly improved.

For over 50 years, Tahoe Asphalt has strived to be an asset to our community. We believe in being good neighbors and providing a service not only to public agencies but to everyone needing our services.

Respectfully,
Tahoe Asphalt, Inc.

"DIAMOND AWARD PLANT" CMI SVM 400TPH

CMI SVM DRUM PLANT: (THIS PLANT IS COMPLETE AND READY TO RUN) SUMMARY: This plant is a CMI model SVM, built in the mid 80's and is rated at 400 TPH. This CMI plant is a parallel flow drum mixer plant. The plant is complete with recent up grades: Current California permit with blue smoke kit. The entire plant is in good condition.

COLD FEED SYSTEM: There are 5 stationary 10' X 15' bins. The 24" feeders are 7' long and are driven by 3 hp D.C. motors. The 30" collector conveyor is 100' long, with a 40' incline stinger belt to scalping screen powered by a 15 hp motor. A 4' x 12' single deck screen scalps off over sized screen has a 48" work platform mounted on side of screen. Aggregates then feed onto a portable 30"X 80' wide, heavy channel frame belt scale conveyor to the drum.

RECYCLE SYSTEM: Single bin 8.5'x 15' incline rap feeder with 27" x 36' feeder belt to a 5.5' x 36" single deck scalping screen. 24"x 80' weighbridge conveyor (Conveyor has a 24" side walkway the total length) to recycle rap tower that feeds recycle screw into the drum. The rap tower has a air by pass chute to reject conveyor 24"x 60' that discharges away from the front of the drum.

PARALLEL FLOW DRUM: This CMI model SVM 8.25 insulated drum has a stationary 8.25' X 42' long drum is chain driven by twin 100 hp motor's and twin 1X1 8 gearboxes. Both ends of the dryer are expanded for better combustion and mixing. The drum sits on a 24" wide flange beam frame and includes the stationary legs set to grade. A 30' Stinger Belt is provided for inlet of materials. The Hauck Starjet is model OII 580 E is set up to burn nat gas. The New York burner blower is powered by a 100 hp motor with silencer. Recycle is introduced via a screw auger through the rear of the drum (Average 15% with no blue smoke).

POLLUTION CONTROL: The Magnum size 32 Cedarapids pulse-jet baghouse, has 512 bag is bags @ 6 diameter and 16' 6" long. There is a total of 11,824 square feet of cloth that will effectively filter 68,000 cfm of dust-laden air at a 5.0 to 1 air to cloth ratio. All inlet and outlet duct work with single auger discharge, 1 X 200 hp motor with damper and stack are included. The dust is then blown back into the drum with a pneumatic blower driven by a 25 hp motor. 40 hp Screw compressor and 600 gal tank and included.

LIQUID ASPHALT STORAGE: There are two skid mounted tanks 1-30,000 gallon coiled skidded tank the second tank is a coiled skidded 20,000 gallon tank. Tanks located in Ridgecrest Ca With Procoils Heating Heater. There is a three-inch unloading pump and a 3" asphalt metering system mounted.

SILO SYSTEM: The three 100-ton silos, system is in good condition. All silos have 5,000 lb butcher's with an electrically heated cone's and gates. There is a 30' x 35' single double chain 400 tph cross slat. The single chain bucket elevator (20.5" L x 9' Wide x 8' D Buckets) is rated at 400+ tph. Driven by a 75 hp motor to move the materials. There is a 10'X 120' concrete deck scales under the silos. There is a reject or by-pass chute under the drum in the feed chute to the bucket elevator that feed reject material onto the rap by-pass conveyor for easy disposal.

CONTROL HOUSE: The control house is relocatable, nominal 8' X 20' single level, all steel control house tinted windows with 280-degree visibility. The motor are in a separate rear room. The plant all the cabling. There are computer mixing and load out control to run the plant along baghouse, burner controls along with feeder controls. Load out is also included with all printers.

This plant is a previous Napa Diamond award winner and a shows. The plant has a complete blue smoke system and numerous spare parts. The plant is located near Sacramento, CA and is meeting all CA emotions requirements. The recycle injection allows for up to 20% but currently runs 15%. Must see plant very clean and highly maintained. The plant currently has 4 in ground electric s.c. tanks but owner has included 2 coiled skid mounted tanks for replacement. As-Is....Where-Is.....Sacramento CA

MUST SELL MAKE AN OFFER

AIR QUALITY MANAGEMENT DISTRICT
330 Fair Lane, Placerville, CA 95667
Phone: (530) 621-7501 · Fax: (530) 295-2774
http://www.edcgov.us/AirQualityManagement

AIR POLLUTION PERMIT TO OPERATE #08-167

Revocable and Non-Transferable
Valid from 11-01-2013 until revoked or cancelled
Permit fees due annually

PERMIT ISSUED TO:
Tahoe Asphalt, Inc.
P.O. Box 8378
South Lake Tahoe, CA 96158

EQUIPMENT LOCATION:
Tahoe Asphalt, Inc.
1104 Industrial Avenue
South Lake Tahoe

This Permit is for the equipment described below and as shown on approved plans and specifications. Equipment operation is subject to the conditions listed on the following pages.

Draft

Asphalt Plant

	Description	Manufacturer	Model	Rating
1	Hot Mix Asphalt Batch Plant	Madsen Iron Works	N/A	144 tons/hr average 168 tons/hr maximum
2	Aggregate Dryer	Madsen Iron Works	8 x 32	60 MMBtu/hr Maximum Temp of 450°F
Remains	Liquid Asphalt Storage Tank w/Heater	Hyway	Heater # HYCGO-100	20,000 gal + 30,000 gal. tank 1.41 MMBtu/hr
Remains	Baghouse	Standard Havens	Magnum 8.5	N/A
Remains	Blower Fan	CENTRI PAC/ Loren Cook	210 CK	6794 CFM Maximum

This Permit does not authorize emissions of air contaminants in excess of limits allowed by federal, state, or district rules and regulations. Air Quality Management District Rules are available at District Office and www.arb.ca.gov/drdb/ed/cur.htm

BY _____
Dave Johnston
AIR POLLUTION CONTROL OFFICER

_____
ISSUE DATE

THANK YOU FOR WORKING WITH US TO IMPROVE AIR QUALITY.

PG 6.4

PERMIT TO OPERATE CONDITIONS
TAHOE ASPHALT INC
PERMIT NUMBER: 08-167

All applicant proposals are conditions of approval unless mentioned herein.

GENERAL CONDITIONS

O.K. 1. If any permit condition is found invalid, such finding shall not affect the remaining permit conditions.

O.K. 2. **PERMIT ACCEPTANCE:** Permit acceptance is deemed acceptance of all conditions specified herein and acceptance of the El Dorado County Air Quality Management District (District) Rules and Regulations.

O.K. 3. **OPERATION:** Equipment operation must be conducted in compliance with all data and specifications submitted with the application under which this permit was issued. (Rule 501, General Permit Requirements section 501.4.E)

O.K. 4. **PERMIT AMENDMENT:** The District reserves the right to amend this permit, upon annual renewal, in order to insure facility compliance with District Rules and Regulations. (Rule 501, General Permit Requirements section 501.3.F)

O.K. 5. **CHANGE OF OWNERSHIP:** The District must be notified prior to change of ownership, building, erecting, altering or replacing any article, machine, equipment or other contrivance, the use of which may cause, eliminate, reduce, or control the issuance of air contaminants. (Rule 501, General Permit Requirements section 501.3)

O.K. 6. **UPSET/BREAKDOWN:** The District must be notified of any upset or breakdown. (Rule 516, Upset Breakdown Conditions)

O.K. 7. **ADDITIONAL SOURCES:** The District must be notified prior to the addition of any air pollution source. (Rule 501, General Permit Requirements section 501.3.A)

O.K. 8. **NUISANCE:** A person shall not discharge from any source quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons, or to the public, or which endanger the comfort, repose, health or safety of any such persons, or the public, or which cause to have a natural tendency to cause injury or damage to business or property. (Rule 205, Nuisance)

O.K. 9. **RIGHT OF ENTRY:** To enforce or administer any State or local law, order, regulation, or rule relating to air pollution, the Air Pollution Control Officer and his duly authorized agents shall have the right of entry to any premises on which an air pollution emission source is located for the purpose of inspecting such source, including securing samples of emissions there from or any records required to be maintained therewith by the District. The Air Pollution Control Officer or his duly authorized agent shall have the right to inspect sampling and monitoring apparatus as deemed necessary. (Rule 509, Authority to Inspect)

PERMIT TO OPERATE CONDITIONS
TAHOE ASPHALT INC
PERMIT NUMBER: 08-167

O.K. 10. **PERMIT ON PREMISES:** The owner or operator shall maintain a legible copy of said permit on the premises of the subject equipment. (Rule 501, General Permit Requirements section 501.4.A)

OPERATING CONDITIONS

* help 11. **ASPHALT PRODUCTION:** Asphalt production shall not exceed a maximum of 168 tons per hour, 3000 tons per day, or 90,000 tons per year. O.K.

* help 12. **AVERAGE HOURLY PRODUCTION LIMIT:** Asphalt production shall not exceed an average hourly limit of 144 tons/hour to be calculated by taking the arithmetic mean, or dividing the daily tonnage processed by the number of hours of operation on that calendar day. The facility may process a maximum of 168 tons/hour for up to four (4) hours per day as long as the average hourly rate for the day is less than or equal to 144 tons.

O.K. 13. **BAGHOUSE SPARES:** The owner or operator shall maintain, at all times, a 25% supply of baghouse filters and immediately reorder upon usage of this stock. (Rule 501, General Permit Requirements section 501.4.E)

O.K. 14. **BAGHOUSE MAINTENANCE:** The baghouse and upstream components including the ductwork and drop-out box shall be visually inspected every morning of each day the plant operates. Ineffective, leaking or clogged filters must be replaced prior to operating the baghouse. Leaks found in the baghouses upstream components shall be repaired within five (5) business days.

O.K. 15. **HOT OIL HEATER:** The hot oil heater operating temperature shall not exceed 450°F.

* help 16. **AGGREGATE DRIER:** The aggregate drier operating temperature shall not exceed 400°F.

O.K. 17. **CONTAMINATED SOILS:** Use of contaminated soils in the asphalt production process shall be limited to 20 cubic yards per year; or 40 tons per year of petroleum-contaminated soils that result from on-site spills only.

O.K. 18. **REMEDIATED SOILS:** Contaminated soils originating from off-site shall not be processed on the premises.

EMISSION LIMITATIONS

O.K. 19. **VISIBLE EMISSIONS:** No source of emissions shall be as dark or darker in shade as that designated as No. 1 (20% Opacity) on the Ringlemann Chart for a period or periods aggregating more than three (3) minutes in any one hour. (Rule 202, Visible Emissions section 202.A)

O.K. 20. **FINE MATERIAL MANAGEMENT:** A person shall not cause, suffer, allow, or permit any fine material to be handled, transported, or

PERMIT TO OPERATE CONDITIONS
TAHOE ASPHALT INC
PERMIT NUMBER: 08-167

without taking precautions which prevent the material from becoming airborne and leaving the property. (Rule 223, Fugitive Dust section 223.4.A)

O.K. 21. **CONCENTRATION LIMIT:** A person shall not cause or allow PM10 levels to exceed 50 micrograms per cubic meter, 24-hour average, when determined by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA approved equivalent methods for PM10 monitoring. (Rule 223, Fugitive Dust section 223.4.B)

TESTING REQUIREMENTS

*help 22. **SOURCE TESTING:** Upon the written request of the Air Pollution Control Officer periodic emissions testing shall be conducted to demonstrate compliance with emission limits and District Rules. (Rule 501, General Permit Requirements section 501.3.D)

RECORD KEEPING AND REPORTING

O.K. 23. **BAGHOUSE FILTER REPLACEMENTS:** Filter replacements shall be recorded for each replacement including the date and number of filters replaced. Records of the visual inspections of the baghouse and upstream components including date and findings shall be maintained. Records shall be retained for no less than 5 years, and shall be made available to District personnel upon request. (Rule 501, General Permit Requirements section 501.5.C.1)

O.K. 24. **PRODUCTION RECORDS:** Production records shall be maintained and retained for no less than 5 years, and shall be made available to District personnel upon request. (Rule 501, General Permit Requirements section 501.5.C.1)

END OF CONDITIONS

*11 & 12: Max. Production would be 250 TPH. @ 20% RAP (recycled asphalt pavement) only 200 TPH of virgin aggregate. vs. the 168 TPH Allowed.

* 16: RAP is introduced @ ambient temp. therefore you must super heat the virgin aggregate to offset the RAP.

* 22: This would be a financial hardship for us being a seasonal small business who doesn't produce much asphalt ea. year.

777 12TH STREET, 3RD FLOOR
SACRAMENTO, CA 95814-1908

SACRAMENTO METROPOLITAN

AIR QUALITY
MANAGEMENT DISTRICT

(916) 874-4800
FAX (916) 874-4899

PERMIT TO OPERATE

ISSUED TO: **GRANITE CONSTRUCTION COMPANY**

EQUIPMENT LOCATION: **900 WEST ELKHORN BLVD., RIO LINDA, CA 95673**

PERMIT NO.	EQUIPMENT DESCRIPTION
20400	ASPHALT CONCRETE BATCH PLANT CONSISTING OF:
1	A. BINS (5), AGGREGATE STORAGE, 13' x 10' x 14' HIGH
1	B. FEEDERS (5), AGGREGATE, 24" x 8', 15 HP TOTAL (3 HP EACH)
1	C. CONVEYOR, AGGRGATE, 30" x 90', 15 HP
1	D. CONVEYOR, AGGRGATE, 30" x 70', 20 HP
2	E. DRUM-MIXER WITH "RAP TUBE", 9' DIA X 49' L, 200 HP
2	F. BURNER, HAUCK SJPO/G1580 POWERSTAR (LOW NOx), 120 MM BTU/HR
2	G. BLOWER, 7,900 SCFM, 100 HP
1	H. HOT OIL CIRCULATION PUMP, 2 HP
1	I. ASPHALT PUMP, 7.5 HP
1	J. ELEVATOR, BUCKET, HOT ASPHALT, 40 HP
ADD	K. CONVEYOR, SLAT, HOT ASPHALT, 3' x 35', 30 HP
ADD	L. CONVEYOR, SLAT, HOT ASPHALT, 3' x 12', 25 HP
?	M. COMPRESSOR, AIR, 10 HP
Replace Existing	N. SILOS (3), HOT ASPHALT STORAGE, 11' DIA X 35' H, 100 TONS CAPACITY, VENTED TO MIXER BURNER
1	O. CONVEYOR, SLINGER, 7.5 HP
	~~P. RECYCLE BIN, 8.5' x 14.5' TAPERED TO DISCHARGE, 36" x 31', 10 HP~~
1	Q. SCALPING SCREEN, 4' x 10', 5 HP
ADD	R. SCALPING SCREEN, 3' x 5', 2 HP
ADD	S. RECYCLE CONVEYOR, 24" x 100', 10 HP
ADD	T. RECYCLE CONVEYOR, 24" x 10', 5 HP
ADD	U. RECYCLE AUGER, 20 HP
1	V. CONVEYOR, REJECT, 24" x 12', 5 HP

DATE REVISED: 11-06-2012
DATE ISSUED: 07-22-2011
DATE EXPIRES: 03-28-2013 (UNLESS RENEWED)

LARRY GREENE
AIR POLLUTION CONTROL OFFICER

BY: Felix Trujillo, Jr.

PERMIT NO.: 14606 & 20400

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AIR QUALITY MANAGEMENT DISTRICT

PERMIT NO.	EQUIPMENT DESCRIPTION
	W. CONVEYOR, REJECT, 24" x 75', 15 HP
ADD	X. STORAGE SILOS EXHAUST REVOCERY SYSTEM EQUIPPED WITH 3,000 CFM FAN (5HP)
	~~Y. DETACHABLE SCREW CONVEYOR FOR THE BAGHOUSE~~
14606	~~APC BAGHOUSE, MAGNUM, SIZE 28, PULSE JET TYPE, 12,109 SQ. FT. CLOTH FILTER AREA. CONSISTING OF: DUST SCREW (5 HP), BLOWER (25 HP), FAN (200 HP), AND COMPRESSOR (50 HP.)~~

SUBJECT TO THE FOLLOWING CONDITIONS:

GENERAL

1. The equipment shall be properly maintained and operated in accordance with the manufacturer's recommendations at all times.
   [Basis: SMAQMD Rule 201, Section 405]

2. The Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials shall be permitted:
   A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate, and
   B. At reasonable times to have access to and copy any records required to be kept under terms and conditions of this Permit to Operate, and
   C. To inspect any equipment, operation, or method required in this Permit to Operate, and
   D. To sample emissions from the source or require samples to be taken.
   [Basis: SMAQMD Rule 201, Section 405]

3. This Permit to Operate does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the California Health and Safety Code or the Rules and Regulations of the Sacramento Metropolitan Air Quality Management District (SMAQMD).
   [Basis: SMAQMD Rule 201, Section 405]

4. The equipment shall not discharge such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
   [Basis: SMAQMD Rule 402, Section 301]

5. A legible copy of this Permit to Operate shall be maintained on the premises with the equipment.
   [Basis: SMAQMD Rule 201, Section 401]

EMISSIONS LIMITATIONS

6. The equipment shall not discharge into the atmosphere any visible air contaminant other than uncombined water vapor for a period or periods aggregating more than three minutes in any one hour which is as dark

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or darker than Ringelmann No. 1 or equivalent to or greater than 20% opacity.
[Basis: SMAQMD Rule 401, Section 301]

7. Particulate matter concentration from the APC baghouse (P/O 14606) shall not exceed 0.04 grains per dry standard cubic foot, corrected to 12% CO_2.
[Basis: 40 CFR 60 Subpart I, Section 60.92(a)(1)]

8. The emissions from the asphalt plant shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Pollutant	Emission Factor (lb/ton)	Maximum Allowable Emissions (A)		
		(lbs/day)	(lbs/quarter)	(lbs/year)
NOx	0.022	88	5,500	22,000
VOC	0.00017	1	42	168
CO	0.13	520	32,500	130,000
SOx	0.0034	13.6	850	3,400
PM10	0.023	92	5,750	23,000
PM2.5	0.023	92	5,750	23,000
GHG (B)	117 lb/MMbtu	168 ton/day	15,456 ton/quarter	61,824 ton/year

(A) Emissions are based on a daily process rate of 4,000 tons/day, a quarterly process rate of 250,000 tons/quarter, and AP-42 emission factors for *Drum Mix Hot Mix Asphalt Plants*, Table 11.1-3,7,8 (3/04). Emission factors for NOx and VOC are based on a source test conducted on 8/31/05. PM2.5 emissions are assumed to be equal to PM10. GHG emission factor is expressed as CO_2e and is from EPA's Mandatory Reporting of Greenhouse Gases Rule (74 FR 56260), Tables C-1 & C-2.

(B) GHG emissions are based on the maximum rating of the burner (120 MMBtu/hr), 24 hours/day, 92 days/quarter and 365 days/year of operation.

The emissions from the stockpiles shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Pollutant	Emission Factor (lb/acre/day) (A)	Maximum Allowable Emissions (B)		
		(lbs/day)	(lbs/quarter)	(lbs/year)
PM10	1.3	7.8	718	2,847
PM2.5	0.195	1.2	110	438

(A) PM10 Emission factor is based on an uncontrolled emission factor of 6.3 lb/acre/day (AP-42 Table 8.19-1-1, 9/85) and an 80% control efficiency through the use of water spray equipment. AP-42 11.19.1 page 5 (11/95) states that water spray systems can reduce loading and wind erosion emissions from storage piles 80 to 90%. Therefore, an 80% control efficiency will be applied to the uncontrolled emission factor. The PM2.5 emission factor is based on a PM2.5/PM10 ratio of 0.15 derived from the *Background Document for Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors, Finalized11/1/06* (http://www.epa.gov/ttn/chief/ap42/ch13/bgdocs/b13s02.pdf).

(B) Emissions based on 6 acres for the stockpiles, 92 days/quarter of operation and 365 days/yr of operation.

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9. The total facility emissions shall not exceed the following limits:
[Basis: SMAQMD Rule 201, Section 405]

Pollutant	Maximum Allowable Quarterly Facility Emissions (A) (lb/quarter)
NOx	4,999

(A) Calculated in accordance with Attachment A.

EQUIPMENT OPERATION

10. The maximum production rate for the asphalt plant shall not exceed the following:
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

Limit	Maximum Allowable Operation	
	Daily (tons/day)	Quarterly (tons/quarter)
Maximum Allowable Production Rate	4,000	250,000

11. The air pollution control baghouse (P/O 14606) shall operate whenever the asphalt plant is in operation.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

12. Water sprays shall be installed at all transfer points.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

13. Water sprays shall be maintained in good working order and shall be operated as efficiently as possible so as to minimize air pollutant emissions.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

14. The asphalt plant shall use only natural gas as a fuel.
[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

15. The hot asphalt storage silos shall be vented to the mixer burner air inlet at all times for control of blue smoke from the silos.
[[Basis: SMAQMD Rules 201, Section 405 and 202, Section 301]

16. Access roads, yards and stockpiles in the general area of this equipment shall be watered or otherwise treated to prevent fugitive dust generated by plant activities from being airborne beyond the property line from which the emissions originate.
[Basis: SMAQMD Rule 403, Section 301]

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SACRAMENTO METROPOLITAN
AIR QUALITY MANAGEMENT DISTRICT

RECORD KEEPING & REPORTING

17. The following record shall be continuously maintained on-site for the most recent three year period and shall be made available to the Air Pollution Control Officer upon request. Quarterly records shall be made available within 30 days following the end of the quarter.
[Basis: SMAQMD Rule 201, Section 405]

Frequency	Information to be Recorded
Daily	A. Amount of asphaltic concrete produced (tons/day).
Quarterly	B. Amount of asphaltic concrete produced (tons/quarter). C. Total facility NOx emissions calculated in accordance with the latest version of Attachment A (lb/quarter).

18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)
[Basis: SMAQMD Rule 201, Section 303.1]

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SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Your application for this air quality Permit to Operate was evaluated for compliance with Sacramento Metropolitan Air Quality Management District (SMAQMD), state and federal air quality rules. The following listed rules are those that are most applicable to the operation of your equipment. Other rules may also be applicable.

SMAQMD RULE NO.	RULE TITLE
201	GENERAL PERMIT REQUIREMENTS (8-24-06)
202	NEW SOURCE REVIEW (2-24-05)
301	STATIONARY SOURCE PERMIT FEES (10-27-05)
401	RINGELMANN CHART (4-19-83)
402	NUISANCE (8-3-77)
403	FUGITIVE DUST (8-3-77)
406	SPECIFIC CONTAMINANTS (12-6-78)
420	SULFUR CONTENT OF FUELS (8-13-81)
801	NEW SOURCE PERFORMANCE STANDARDS – STANDARDS OF PERFORMANCE FOR HOT MIX ASHPALT PLANTS [40 CFR 60 SUBPART I]

In addition, the conditions on this Permit to Operate may reflect some, but not all, requirements of these rules. There may be other conditions that are applicable to the operation of your equipment. Future changes in prohibitory rules may establish more stringent requirements which may supersede the conditions listed here.

For further information please consult your SMAQMD rulebook or contact the SMAQMD for assistance.

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Trademark

Lisa Petersen

centri-Pac

Tahoe Asphalt

210 CK SERIES CENTRIFUGAL BLOWERS

SINGLE WIDTH SINGLE INLET

INTAKE AREA = 2.690 SQ. FT. WHEEL DIAMETER 21"
OUTLET AREA = 2.590 SQ. FT. TIP SPEED F.P.M. = 5.50 x R.P.M. MAXIMUM B.H.P. = 1.160 RPM 1000 S

C.F.M.	O.V.	1/4" S.P. R.P.M.	1/4" S.P. B.H.P.	3/8" S.P. R.P.M.	3/8" S.P. B.H.P.	1/2" S.P. R.P.M.	1/2" S.P. B.H.P.	5/8" S.P. R.P.M.	5/8" S.P. B.H.P.	3/4" S.P. R.P.M.	3/4" S.P. B.H.P.	7/8" S.P. R.P.M.	7/8" S.P. B.H.P.
2024	800	487	0.13	541	0.18	591	0.22	641	0.26	689	0.33	734	0.39
2277	900	520	0.16	570	0.21	618	0.26	662	0.31	706	0.37	750	0.43
2530	1000	556	0.20	602	0.25	648	0.31	689	0.36	729	0.42	767	0.48
2783	1100	595	0.24	635	0.30	678	0.36	717	0.42	756	0.48	793	0.54
3036	1200	631	0.28	672	0.35	711	0.41	748	0.48	784	0.54	820	0.61
3289	1300	670	0.34	708	0.41	745	0.48	781	0.55	815	0.62	848	0.69
3542	1400	710	0.40	746	0.47	781	0.55	814	0.62	847	0.69	879	0.77
3795	1500	750	0.47	785	0.55	817	0.63	849	0.70	880	0.78	911	0.85
4048	1600	791	0.54	824	0.63	855	0.71	885	0.80	915	0.88	944	0.97
4301	1700	833	0.63	863	0.71	894	0.81	922	0.90	951	0.99	978	1.08
4554	1800	875	0.72	904	0.82	933	0.91	960	1.01	987	1.10	1014	1.20
4807	1900	917	0.82	944	0.92	972	1.02	999	1.13	1024	1.23	1050	1.33
5060	2000	959	0.93	986	1.04	1012	1.15	1038	1.26	1063	1.36	1087	1.47
5566	2200	1045	1.18	1089	1.31	1093	1.43	1117	1.55	1140	1.66	1163	1.78
6072	2400	1131	1.48	1154	1.62	1176	1.76	1197	1.89	1219	2.02	1241	2.14
6578	2600	1218	1.83	1239	1.98	1260	2.14	1280	2.28	1300	2.43	1320	2.58
7084	2800	1305	2.24	1325	2.40	1345	2.56	1363	2.72	1382	2.88	1400	3.04
7590	3000	1393	2.70	1412	2.87	1430	3.05	1448	3.22	1465	3.39	1483	3.56
8096	3200	1481	3.22	1498	3.41	1516	3.59	1533	3.78	1549	3.97	1566	4.15
8602	3400	1569	3.80	1585	4.01	1602	4.21	1618	4.40	1634	4.60	1650	4.81

6799 cfm – Adj for Altitude

C.F.M.	O.V.	1" S.P. R.P.M.	1" S.P. B.H.P.	1-1/4" S.P. R.P.M.	1-1/4" S.P. B.H.P.	1-1/2" S.P. R.P.M.	1-1/2" S.P. B.H.P.	2" S.P. R.P.M.	2" S.P. B.H.P.	2-1/2" S.P. R.P.M.	2-1/2" S.P. B.H.P.	3" S.P. R.P.M.	3" S.P. B.H.P.
2024	800	776	0.46	852	0.57								
2277	900	792	0.50	868	0.63	937	0.77						
2530	1000	808	0.55	884	0.69	953	0.84						
2783	1100	827	0.61	901	0.76	969	0.91						
3036	1200	854	0.68	917	0.82	988	0.99	1108	1.38	1216	1.70		
3289	1300	881	0.76	943	0.91	1002	1.07	1124	1.43	1232	1.81	1329	2.21
3542	1400	909	0.85	970	1.01	1027	1.17	1141	1.54	1248	1.94	1345	2.35
3795	1500	940	0.95	988	1.11	1054	1.29	1157	1.65	1264	2.06	1362	2.50
4048	1600	973	1.05	1026	1.23	1081	1.41	1181	1.78	1281	2.20	1378	2.65
4301	1700	1006	1.17	1058	1.35	1109	1.54	1206	1.93	1298	2.34	1394	2.80
4554	1800	1039	1.29	1091	1.48	1139	1.68	1235	2.09	1323	2.51	1411	2.97
4807	1900	1075	1.43	1124	1.63	1172	1.84	1263	2.28	1350	2.69	1430	3.14
5060	2000	1111	1.57	1157	1.78	1204	2.00	1291	2.44	1378	2.90	1457	3.36
5566	2200	1185	1.90	1229	2.13	1271	2.36	1355	2.84	1433	3.32	1512	3.83
6072	2400	1262	2.27	1303	2.54	1343	2.78	1421	3.29	1495	3.81	1567	4.34
6578	2600	1340	2.70	1379	2.98	1416	3.25	1489	3.80	1561	4.36	1629	4.92
7084	2800	1419	3.18	1456	3.47	1492	3.76	1561	4.37	1627	4.96	1694	5.56
7590	3000	1500	3.73	1535	4.04	1569	4.36	1634	5.00	1698	5.63	1760	6.26
8096	3200	1582	4.33	1615	4.67	1647	5.00	1710	5.69	1770	6.37		
8602	3400	1665	4.99	1696	5.38	1726	5.72	1787	6.45				

C.F.M.	O.V.	3-1/2" S.P. R.P.M.	3-1/2" S.P. B.H.P.	4" S.P. R.P.M.	4" S.P. B.H.P.	4-1/2" S.P. R.P.M.	4-1/2" S.P. B.H.P.	5" S.P. R.P.M.	5" S.P. B.H.P.	5-1/2" S.P. R.P.M.	5-1/2" S.P. B.H.P.
3036	1200										
3289	1300										
3542	1400	1435	2.77	1519	3.22						
3795	1500	1451	2.94	1535	3.40	1614	3.87				
4048	1600	1467	3.10	1551	3.68	1629	4.07	1704	4.57		
4301	1700	1484	3.28	1567	3.78	1645	4.28	1720	4.80	1790	5.32
4554	1800	1500	3.46	1583	3.97	1661	4.49	1736	5.04	1806	5.58
4807	1900	1517	3.65	1600	4.18	1678	4.72	1752	5.28		
5060	2000	1533	3.84	1616	4.39	1694	4.95	1768	5.52		
5566	2200	1565	4.34	1653	4.86	1727	5.43	1801	6.04		
6072	2400	1639	4.89	1707	5.45	1771	6.01				
6578	2600	1695	5.50	1762	6.09						
7084	2800	1757	6.17								
7590	3000										
8096	3200										
8602	3400										

Air performance shown is for type CKA/CKS/CKA-4/CKS-4 with outlet ducts. BHP does not include drive loss.

LOREN COOK COMPANY

Application for: Authority to Construct Permit to Operate Support Request

County of El Dorado Air Quality Management District
330 Fair Lane, Placerville, CA 95667
Phone: (530) 621-7501
Fax: (530) 295-2774
www.edcgov.us/AirQualityManagement

RESPONSIBLE COMPANY or OPERATOR	*Company/Operator (Please Print or Type)* Tahoe Asphalt	*Contact* Russell Crawford
	Mailing Address P.O. Box 8378	*Title* General Manager
	City, State &ZIP Code South Lake Tahoe CA 96158	*Phone* 530 541 0133
	Federal ID Number or SS Number 68-0349779	*E-Mail Address* tarbabe@sbcglobal.net
FACILITY LOCATION	*Name of Facility* Tahoe Asphalt	*Facility Contact* Russell Crawford
	Street Address 1104 industrial Ave.	*Title* General Manager
	City South Lake Tahoe	*Phone* 530 541 0133

Send bill(s), permits and correspondences to: ☐ Responsible Company/Operator ☒ Facility Location

Type of Application (Check appropriate boxes)

- ☐ New Facility
- ☒ Modification of Existing Facility or Equipment
- ☐ Change of Ownership
  Existing Permit # CAL000204551
- ☐ Emission Reduction Credit
- ☐ AQMD Support Request
- ☐ Miscellaneous (explain below)

Is the facility location within 1000 feet from the boundary of a K-12 school? ☐ YES ☒ NO

Equipment Schedule of Operation	Hours/day: 8	Days/week: 5	Weeks/year: 26

Estimated Construction Start Date:	8/20/13	Estimated Completion Date:	5/25/14	Estimated Start-up Date:	

Description of Project/Request (Attach supplemental forms and/or detailed equipment/emission information):

I want to construct a air inlet at the Pugmill/ loadout hopper to catch asphalt fumes generated when we load out ashpalt in

with fans and ducting the fumes will be accepted by the baghouse.

Information submitted to obtain an Authority to Construct/Permit to Operate is public information unless specifically marked as trade secret or confidential by the applicant. Emission data is subject to disclosure regardless of any claim of trade secret or confidentiality.

Signature of Responsible Official/Person:
The Responsible Official/Person is the individual with the authority to certify this source will comply with all District requirements and conditions set forth in the permit and the Rules and Regulations of El Dorado County. I certify all information contained herein and submitted with this application is true, accurate and complete.

Signature: Russell Crawford Date: 8/12/2013

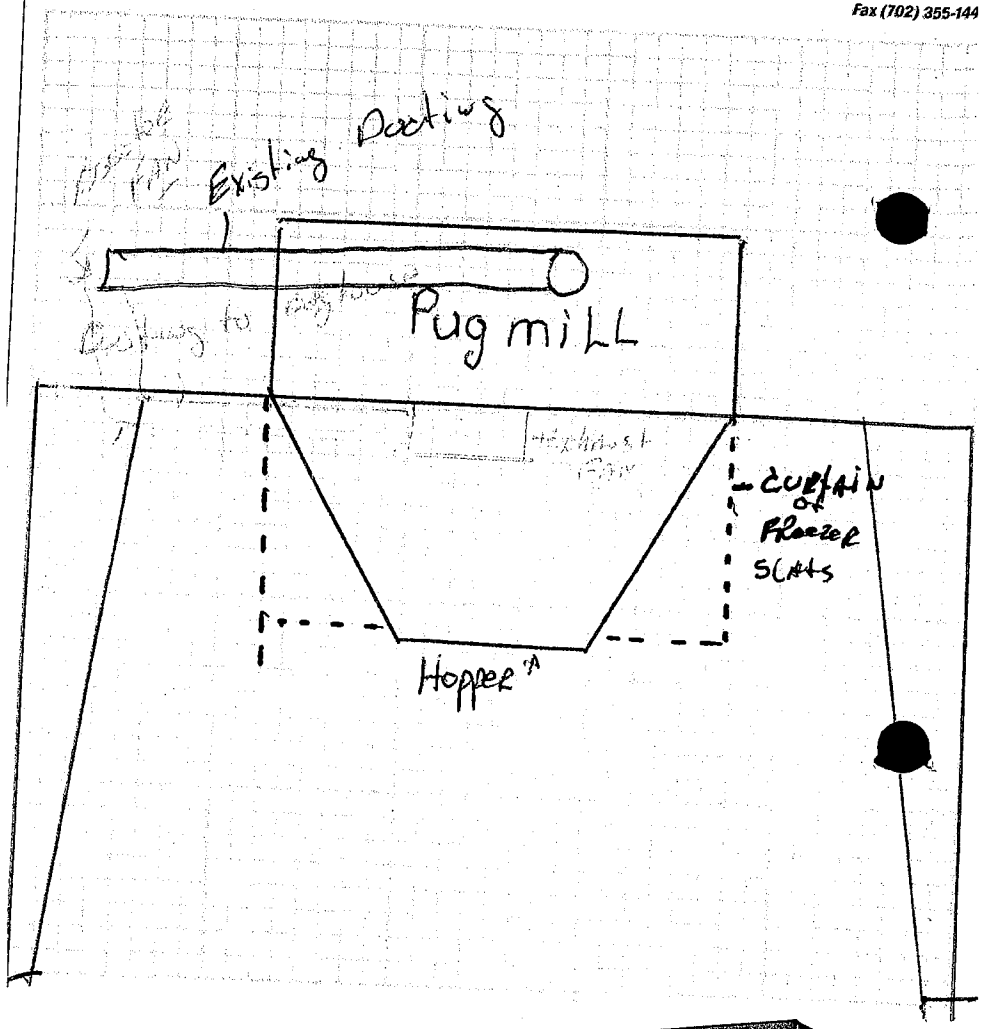
Printed Name: Russell Crawford Title: GM

DATE STAMP	FOR EL DORADO COUNTY AQMD USE ONLY	
	AC No.:	APPLICATION APPROVED 9-6-13 (DATE) LP (ENGINEER'S INITIALS)
	PO No.:	APPLICATION DENIED (DATE) (ENGINEER'S INITIALS)

Mike Plumer, Owner 925.588.8731

PDM Service Centers
Division of Pitt-Des Moines, Inc.

1250 Kleppe Lane • P.O. Box 673 • Sparks, Nevada 89431 • (702) 358-144
Fax (702) 355-144



TAHOE ASPHALT, INC.

Plant Location: 1104 Industrial Ave., South Lake Tahoe, CA
P. O. Box 8378, South Lake Tahoe, CA 96158
Phone: (530) 541-0133 Fax: (530) 541-1647
A Certified Federal and California State Small Business Enterprise
www.tahoeasphalt.com

Lisa Peterson
Air Quality Engineer
El Dorado County AQMD

07-17-13

Dear Lisa:

I would like to request an authority to construct, so that I might start construction on a capture and venting system for the load-out portion of the asphalt plant. We will use ducting, a fan or fans, and curtains of some sort to capture/ contain the asphalt vapors during the load-out process. As with everything, a change in one place can precipitate many changes down the line. I would like to be more specific, but I feel this is going to take some trial and adjustment to maximize effectiveness.

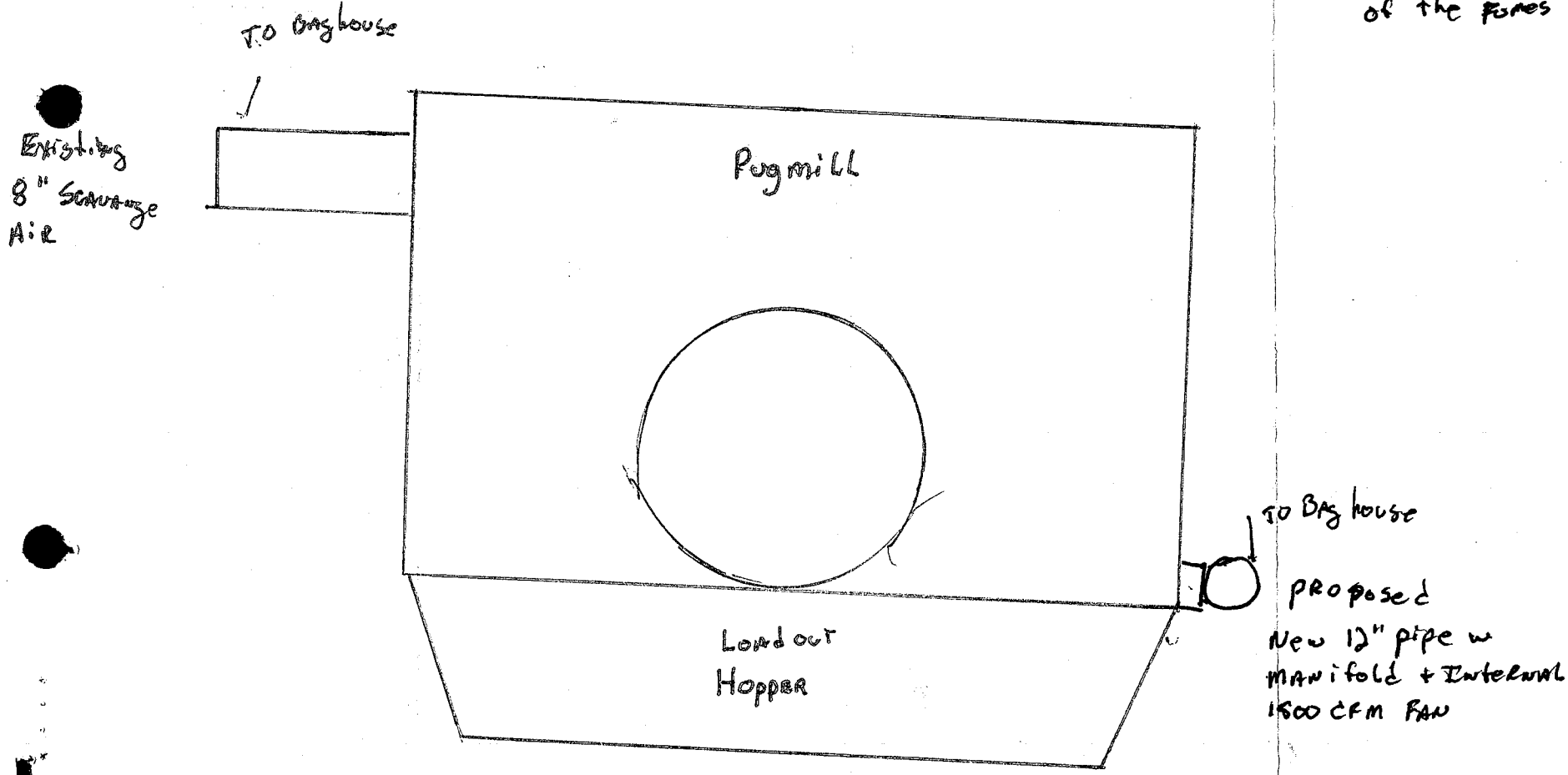
Sincerely,

Russell Crawford
General Manager

RECEIVED
JUL 25 2013
AQMD

RECEIVED
AUG 05 2013
AQMD

Total cu' of mixer + Hopper
= 200cu'
1500 cfm ÷ 200 = 7.5 change of
Air/min 60 ÷ 7.5 = 8 sec.
for complete Exchange
of Air - gate open time
is 8 sec. - by design this
should contain most
of the fumes



TAHOE ASPHALT, INC.

Plant Location: 1104 Industrial Ave., South Lake Tahoe, CA
P. O. Box 8378, South Lake Tahoe, CA 96158
Phone: (530) 541-0133 Fax: (530) 541-1647
A Certified Federal and California State Small Business Enterprise
www.tahoeasphalt.com

RECEIVED
DEC 2012
AQMD

December 17, 2012

Steve McKinney
El Dorado County
APCD

Dear Mr. McKinney:
I would like to request an authority to construct on our asphalt plant. The changes I would like to make come from a request by Molly Johnson and are in regards to emissions during load out. I would like to have a sheet metal manifold formed to sit on one edge of our load-out hopper and connect that manifold to an in duct fan and run the ducting into our existing fugitive air ducting. Through extensive research I am hopeful that this will eliminate emissions at this point.
I would also like to eliminate the LeRoi compressor with the John Deere engine from this permit. I am going to include the compressor in the statewide permit for the crusher.

The forth-coming Application + fees were received late into 2013 following many complaints from a neighbor.

Sincerely,

Russell Crawford

Russell Crawford
General Manager
Tahoe Asphalt

Print Form

Application for: Authority to Construct Permit to Operate Support Request

El Dorado County Air Quality Management District
2850 Fairlane Court, Building "C", Placerville, CA 95667
Phone: (530) 621-6662
Fax: (530) 295-2774
www.co.el-dorado.ca.us/emd

RESPONSIBLE COMPANY or OPERATOR	Company/Operator (Please Print or Type): Tahoe Asphalt, Inc.	Contact: Russell Crawford
	Mailing Address: P.O. Box 8378	Title: General Manager
	City, State &ZIP Code: South Lake Tahoe, CA 96158	Phone: 530.541.0133
	Federal ID Number or SS Number: 68-0349779	E-Mail Address: tarbabe@SBCGlobal.net
FACILITY LOCATION	Name of Facility: Tahoe Asphalt, Inc	Facility Contact: Russell Crawford
	Street Address: 1104 Industrial Ave.	Title: General Manager
	City: South Lake Tahoe, CA	Phone: 530.541.0133

Send bill(s), permits and correspondences to: ☒ Responsible Company/Operator ☐ Facility Location

Type of Application (Check appropriate boxes)
- ☐ New Facility
- ☒ Modification of Existing Facility or Equipment
- ☐ ~~Change of Ownership~~
- Existing Permit # 08-167
- ☐ Emission Reduction Credit
- ☐ AQMD Support Request
- ☐ Miscellaneous (explain below)

Is the facility location within 1000 feet from the boundary of a K-12 school? ☐ YES ☒ NO

Equipment Schedule of Operation	Hours/day: 24	Days/week: 7	Weeks/year: 26

Estimated Construction Start Date:	6.1.08	Estimated Completion Date:	6.19.08	Estimated Start-up Date:	6.19.08

Description of Project/Request (Attach supplemental forms and/or detailed equipment/emission information):
Replace childers hot oil heater with Hyway heater model # HYCGO-100 S/N # 166592

Information submitted to obtain an Authority to Construct/Permit to Operate is public information unless specifically marked as trade secret or confidential by the applicant. Emission data is subject to disclosure regardless of any claim of trade secret or confidentiality.

Signature of Responsible Official/Person:
The Responsible Official/Person is the individual with the authority to certify this source will comply with all District requirements and conditions set forth in the permit and the Rules and Regulations of El Dorado County. I certify all information contained herein and submitted with this application is true, accurate and complete.

Signature: Russell Cra Date: 17 June 2008

Printed Name: Russell Crawford Title: General Mgr.

DATE STAMP: RECEIVED JUN 23 2008 AQMD

FOR EL DORADO COUNTY AQMD USE ONLY

AC No.: 08-037

PO No.: 08-167

APPLICATION APPROVED: DATE 9/19/08 ENGINEER'S INITIALS Gwm

APPLICATION DENIED: DATE ____ ENGINEER'S INITIALS ____

This form and supplemental equipment/emission forms are available at: www.co.el-dorado.ca.us//emd/apcd/construction.html

TAHOE ASPHALT, INC.
Plant Location: 1104 Industrial Ave., South Lake Tahoe, CA
P.O. Box 8378, South Lake Tahoe, CA 96158
(530) 541-0133

(530) 541-1647 Fax

FAX
COVER SHEET

TO Steve McKinney - El Dorado County Air Quality
FROM Russell Crawford **PHONE** 621-6662
FAX # 295-2774 **DATE** 10-19-07 **TIME** ____
NUMBER OF PAGES INCLUDING COVER 6

Steve, per our phone conversation, please review the attached. I would appreciate your input as soon as possible.
Thank you

RECEIVED
OCT 19 2007
AQMD

Application for: Authority to Construct Permit to Operate Support Request

El Dorado County Air Quality Management District
2850 Fairlane Court, Building "C", Placerville, CA 95667
Phone: (530) 621-6662
Fax: (530) 295-2774
www.co.el-dorado.ca.us/emd

RESPONSIBLE COMPANY OR OPERATOR

Company/Operator (Please Print or Type): Tahoe Asphalt, Inc	Contact: Russell Crawford
Mailing Address: P.O. Box 8378	Title: General Manager
City, State & ZIP Code: South Lake Tahoe, CA 96158	Phone ( ): 530.541.0133
Federal ID Number or SS Number: 68-0349779	E-Mail Address:

FACILITY LOCATION

Name of Facility: Tahoe Asphalt Inc	Facility Contact: Russell Crawford
Street Address: 1104 Industrial Avenue	Title: General Manager
City: South Lake Tahoe, CA 96150	Phone ( ): 530-541-0133

Send bill(s), permits and correspondances to: (Responsible Company/Operator) Facility Location

Type of Application (Check appropriate boxes)
- New Facility
- X Modification of Existing Facility or Equipment
- Change of Ownership
- X Existing Permit # 08-167
- Emission Reduction Credit
- AQMD Support Request
- Miscellaneous (explain below)

Is the facility location within 1000 feet from the boundary of a K-12 school? YES (NO)

Equipment Schedule of Operation	Hours/day:	Days/week:	Weeks/year:
	24	7	26

Estimated Construction Start Date:	Estimated Completion Date:	Estimated Start-up Date:
1.1.08	5.1.08	5.1.08

Description of Project/Request (Attach supplemental forms and/or detailed equipment/emission information):

Replace childers hot oil heater with C.E.I —

See attached documentation

Information submitted to obtain an Authority to Construct/Permit to Operate is public information unless specifically marked as trade secret or confidential by the applicant. Emission data is subject to disclosure regardless of any claim of trade secret or confidentiality.

Signature of Responsible Official/Person:
The Responsible Official/Person is the individual with the authority to certify this source will comply with all District requirements and conditions set forth in the permit and the Rules and Regulations of El Dorado County. I certify all information contained herein and submitted with this application is true, accurate and complete.

Signature: Russell Crawford Date: 19 October 2007

Printed Name: Russell Crawford Title: General Manager

DATE STAMP

FOR EL DORADO COUNTY AQMD USE ONLY

AC No.: APPLICATION APPROVED — DATE — ENGINEER'S INITIALS

PO No.: APPLICATION DENIED — DATE — ENGINEER'S INITIALS

This form and supplemental equipment/emission forms are available at: www.co.el-dorado.ca.us//emd/apcd/construction.html

CEI ENTERPRISES, INC.
an Astec Company

CEI ENTERPRISES
ALBUQUERQUE, NEW MEXICO U.S.A.

P.O. BOX 9156 • ALBUQUERQUE, NM 87119 • 800-545-4034 • 505-842-5558 • Fax 505-243-1422 • www.ceienterprises.com

October 19, 2007

Tahoe Asphalt Inc.
1104 Industrial Ave
P.O.Box 8378
South Lake Tahoe, CA 96150

Phone: (530) 541-0133
Fax: (530) 541-1647
Cell: (925) 933-6170

Attention: Mike Plummer e-mail: mplumer@astound.net

Reference: CEI Proposal No. **07-311revA**

CEI Enterprises, Inc., an Astec company proposes to furnish, in accordance with the following specifications and general conditions, the equipment and/or services described below:

Item A – One (1) each: Model CEI-1200A, Jacketed Firebox Circulating Hot Oil Heater with a full modulation power pressure burner equipped for natural gas. Maximum input is rated at 1,410,000 BTU/hour with an output of 1,227,000 BTU/hour. The unique design of the CEI heater provides 90% peak thermal efficiency. Consequently, the heater burns less fuel than other. The maximum operating temperature is 450° F. Please consult factory if a higher temperature is needed.

CIRCULATING PUMP is a self-cooling, high capacity, virtually dripless centrifugal type pump. A safety guard covers the pump coupling that connects the pump to a 5 HP, 3450 RPM, TEFC (totally enclosed fan cooled) electric motor. These components are mounted on a steel base that is welded to the heater skid. The pump flow rate is 120 GPM with an available head of 35 PSIG. Isolation valves make pump removal possible with a minimal loss of thermal fluid. Burner controls, pressure control switch, and a 5" dial pressure gauge are interlocked with the pump.

CONTROLS are prewired, tested and located in a NEMA-4 enclosure. All necessary operating and safety controls include digital flame safeguard system, low oil level switch, high-temperature safety, pump pressure control, digital temperature controller, fuel selector switch, OFF/PUMP/BURNER switch, a series of operating/indicating lights and thermometers for hot oil supply and return. Control voltage is 115/60/1.

FIREBOX AND HEAT EXCHANGER are desined for fast, efficient thermal heat transfer. The firebox is oil jacketed with forced circulation channeled for positive flow control of heat transfer fluid. After complete combustion occurs in the firebox, hot gases pass through the multi-pass fire-tube type heat exchanger to give a total of 110 square feet of heating surface. A turbulator fin inside each tube of the heat exchanger provides additional heating efficiency. Firebox is covered with 3" of spunfelt insulation. Heat exchanger is covered with 1" of spunfelt insulation with aluminum backing. Skin covering insulation is .032" thick stucco embossed aluminum.

CEI REPORTS...

A Trace Industries Inc. Company
CEI ENTERPRISES • P.O. BOX 9156 • ALBUQUERQUE, NEW MEXICO 87119 • 505-877-9107 • TOLL FREE 1-800-545-4034

E M I S S I O N S D A T A

CEI CIRCULATING HOT OIL HEATER

EQUIPPED WITH POWER FLAME BURNER

1,410,000 BTU / HOUR MAXIMUM INPUT

ph call 9/19/08

	NO. 2 DIESEL FUEL	NATURAL GAS
NO_x	.20 #/Hr NO_x Max.	.13 #/Hr NO_x Max.
Carbon Monoxide	Negligible CO	.052 #/Hr CO Max.
Particulate Matter	.141 #/Hr Max.	Negligible
Hydrocarbons	.054 #/Hr Max.	.035 #/Hr Max.
Moisture Grains	626,000 /Hr Max.	916,000 /Hr Max.
Moisture Percent	6%	9%

Sulphur Dioxide - SO_2 To determine SO_2 content, multiply percent of sulphur by weight in fuel X 1.05 = # of SO_2 per million BTU.

Example: 1.6 (percent of sulphur in fuel) X 1.05 = 1.68 #/MM BTU.

1.68 X 1.41 (millions of BTU) = 2.3688 #/Hr SO_2 Max.

Exhaust Flow Rate = 325 CFM Including 20% Excess Air.

Exhaust Velocity = 10 Feet/Second.

SCS CORPORATION

436 – 14th Street, Suite 801
Oakland, California 94612

Ph.: (510) 625-8175 Fx.: (510) 625-8176
js@schutze-inc.com

May 1, 2002

Mr. Russell Crawford
General Manager
Tahoe Asphalt Inc.
P.O. Box 8378
South Lake Tahoe, CA 96158

Cc: Mr. Michael Plumer NA

Reference: **Silt Tailings at South Lake Tahoe Operation**
Subject: **Summary Report for Material Testing**

Dear Russ:

SCS Corporation is pleased to submit this summary report to Tahoe Asphalt Inc. This report is regarding environmental testing of silt tailings at the South Lake Tahoe facility of Tahoe Asphalt Inc. The material was tested in accordance with testing requirements of the California Regional Water Quality Control Board (RWQCB) and the Nevada Department of Environmental Protection. Mr. Jan Schütze, a Registered Geologist (R.G.) in the State of California, and a Certified Environmental Manager (C.E.M.) in the State of Nevada performed the testing. The purpose of this investigation was to determine re-use possibilities for this silt material, based on the results of the laboratory testing.

Site Location

The Tahoe Asphalt facility is located at 1104 Industrial Avenue, in the southwest portion of the City of South Lake Tahoe, California. The site is occupied by an office building, an asphalt plant, various material stockpiles and a tailings pond (Figures 1 and 2). The tailings pond is in the southeast corner of the subject site, bordered by a natural slope along the south, and a berm of coarse tailings on the east and north sides. The approximate dimensions of the pond are 200 ft (E-W) by 150 ft (N-S). The material is dumped into the tailings pond from a central haul road. Water accumulates on the northwest portion of the pond and is recycled at the on-site operations.

Material Description

The silt originates at the asphalt plant when the aggregate is screened, heated and mixed with bitumen. The fines are discharged after passing through the bag house. Based on field observations, the fines have a particle size ranging from silt (0.004 – 0.060 mm or 0.001 – 0.020 inches) to fine sand (0.25 mm or 0.01 inches). The material has a high mica (biotite/muscovite) content. Some fine asphalt particles were observed.

Assuming dimensions of 200x150x5 ft, there are approximately 5,000 cubic yards of this material in the tailings pond.

Sample Locations and Analytical Results

SCS Corporation collected eight soil samples and one water sample. The sample locations were along the perimeter of the pond, at approximately 40 ft intervals (Figure 2). Each sample was composited from surface material, material at one ft depth, and material at two ft depth.

The soil and water samples were collected in nine-ounce clear-glass and one-liter brown glass containers, respectively, placed on ice and transported to McCampbell Analytical Laboratories following appropriate Chain-of-Custody procedures. The soil and water samples were analyzed for Total Petroleum Hydrocarbons (TPH) targeting gasoline (g) (Carbon Range C6 – 12), diesel (d) (C10 – 23) and motor oil (mo) (C18+) (EPA Method 8015C). Three soil samples and one water sample were also analyzed for volatile organic compounds including benzene and methyl tert butyl ether (MTBE) (EPA Method 8020).

Soil Analyses: Based on the analytical results, TPH (g) was not detected (ND) in any of the soil samples. TPH (d) concentrations in soil ranged between ND and 70 mg/kg, which is below California and Nevada Action Levels of 100 mg/kg. TPH (mo) concentrations in soil ranged between ND and 30 mg/kg, which also is below California and Nevada Action Levels. SCS Corporation reviewed the chromatograms for samples numbered TA6 and TA7. The peaks on the chromatogram strongly indicate asphalt material as the TPH material in the sample.

Trace amounts of Toluene (up to 0.0078 mg/kg) were detected in sample TA5, which is significantly below the Action Levels of 100 mg/kg for California and 10.0 mg/kg for Nevada.

Trace amounts of Xylenes (up to 0.013 mg/kg) were detected in samples TA 5 and TA8, which is significantly below the Action Levels of 1.0 mg/kg for California and 30 mg/kg for Nevada.

Water Analyses: TPH or VOC analyses for the pond-water sample were ND. The water is in direct contact with the silt. This result supports that asphalt fragments in the soil do not leach into water.

Conclusions and Recommendations

SCS Corporation has completed the environmental assessment of silt material deposited in the tailings pond at the Tahoe Asphalt Inc. operation in South Lake Tahoe, California. The purpose of this assessment was to test the silt material for potential contamination. Tahoe Asphalt Inc. intends to deliver this material for re-use to other companies including a Nevada-based composting facility.

Based on the analytical results, all analyses were non-detect (ND) or below California and Nevada Action Levels. Total Petroleum Hydrocarbon (diesel) concentrations ranged between non-detect and 70 mg/kg. Trace amounts of Toluene and Xylenes were present.

Based on observations and chromatogram analyses, the low concentrations of TPH originate from asphalt fragments in the silt. Thorough testing by the Asphalt Institute (A. Kriech, 1990, Evaluation of Hot-Mix Asphalt for Leachability) has demonstrated that asphalt does not leach into the environment. Agencies continue to specify asphalt liners for drinking water reservoirs and fish rearing ponds, where the water quality must meet rigorous drinking water standards.

The material presents a very low health risk and can safely be used in compost or other re-use applications.

If you have questions regarding these results, please contact me at (510) 623-1261.

Cordially,

SCS CORPORATION

REGISTERED GEOLOGIST
Jan H. Schutze, M. Sc.
License No. 5771
STATE OF CALIFORNIA

Jan H. Schütze, M.Sc.
Registered Geologist (#5771), California

JURAT

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations and ordinances.

4/30/02
Date

Jan H. Schütze, M.Sc., R.G.,
Nevada C.E.M. #1795 (expires March 8, 2004)

Attachments:
Tables 1 and 2: Summary Tables for Analytical Results
Figures 1 and 2: Site Location, Sample Locations
McCampbell Analytical Report

Table 1
Hydrocarbon Analyses of Silt Material
Tahoe Asphalt Inc.,South Lake Tahoe, CA

Sample No.	TPH (g) mg/kg	TPH (d) mg/kg	TPH (mo) mg/kg	CA Action Level (1) (mg/kg)	NV Action Level (2) (mg/kg)
TA 1 (soil)	ND	20	ND	100	100
TA 2 (soil)	ND	20	ND	100	100
TA 3 (soil)	ND	13	ND	100	100
TA 4 (soil)	ND	11	14	100	100
TA 5 (soil)	ND	25	ND	100	100
TA 6 (soil)	ND	30	ND	100	100
TA 7 (soil)	ND	71	ND	100	100
TA 8 (soil)	ND	24	30	100	100
TA 9 (water)	ND (µg/L)	ND (µg/L)	ND (µg/L)	100 µg/L	100 µg/L

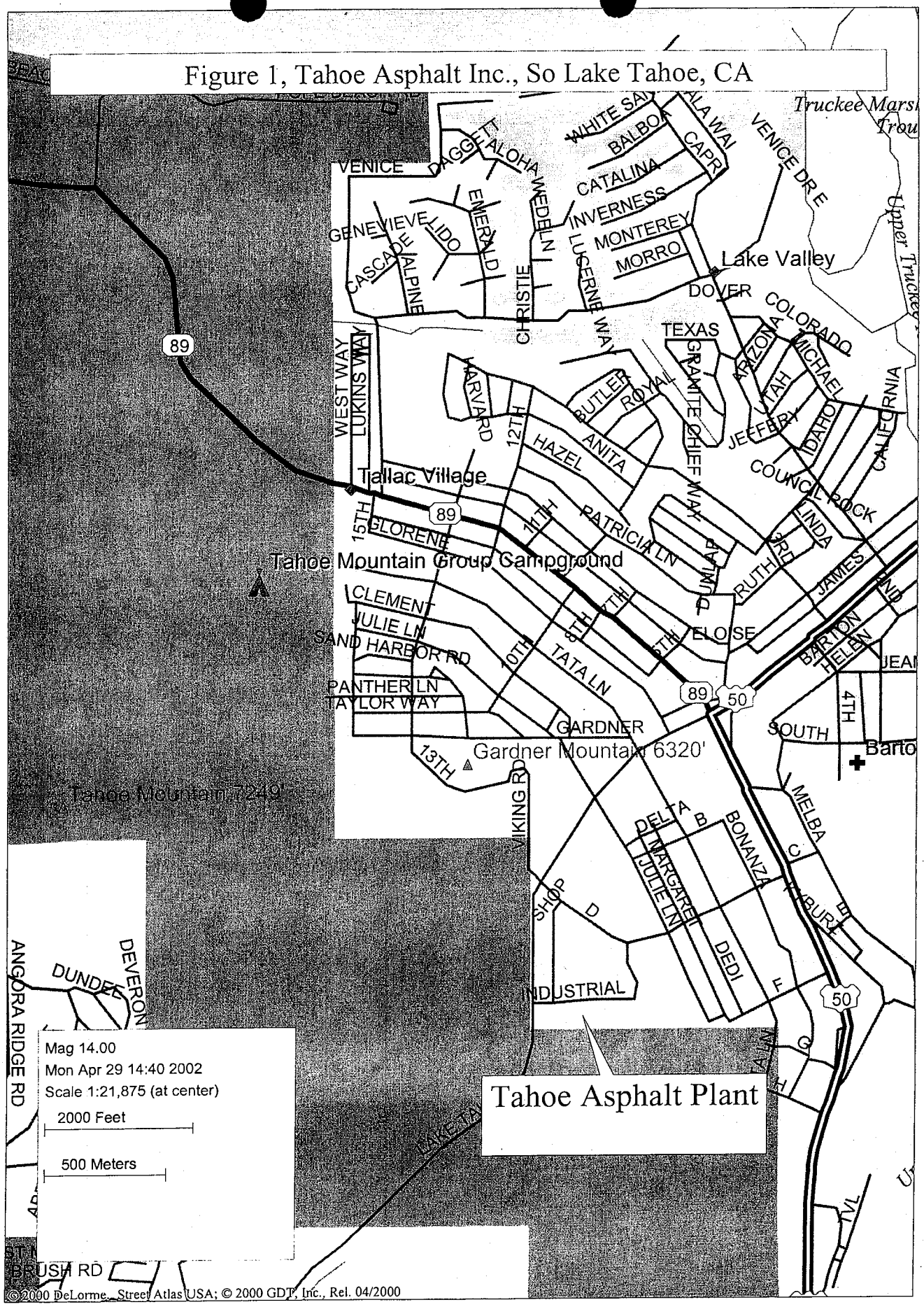
(1) The California Action Level is based on the Risk-Based Screening Levels (RBSL) produced by the RWQCB (Appendix 1).
(2) The Nevada Action Levels are based on the Nevada Administrative Code, 459.9921 through 459.999.

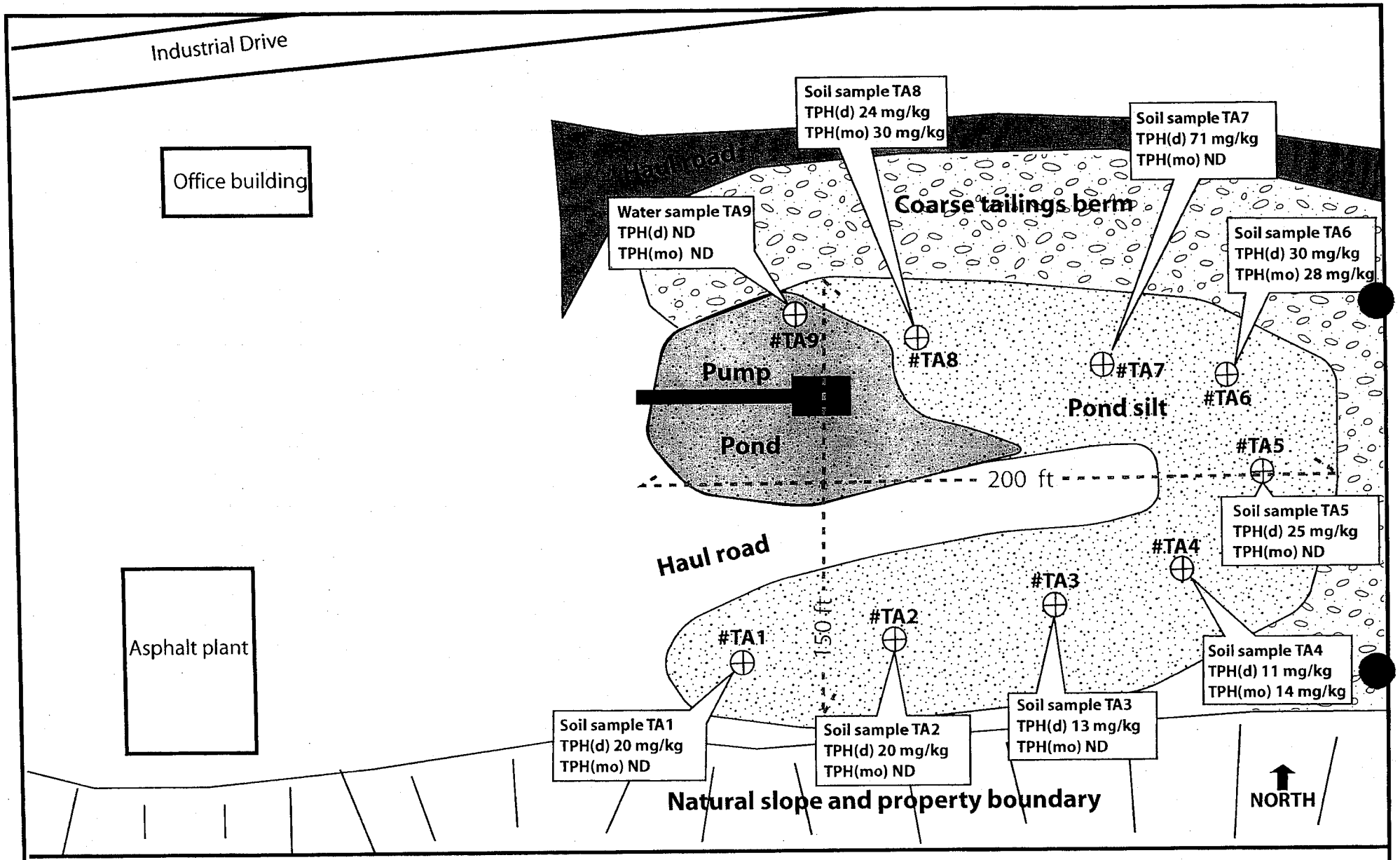
Table 2
VOC Analyses of Silt Material
Tahoe Asphalt Inc., South Lake Tahoe, CA

Sample No.	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl benzene	Xylenes	CA Action Level (1) (mg/kg)	NV Action Level (2) (mg/kg)
TA 1 (soil)	ND	ND	ND	ND	ND	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 2 (soil)	ND	-	-	-	-	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 3 (soil)	ND	-	-	-	-	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 4 (soil)	ND	-	-	-	-	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 5 (soil)	ND	ND	0.0078	ND	0.013	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 6 (soil)	ND	-	-	-	-	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 7 (soil)	ND	-	-	-	-	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 8 (soil)	ND	ND	ND	ND	0.0095	0.028/0.45/100/ 2.5/1	20/10/10/10/30
TA 9 (water)	ND (µg/L)	ND (µg/L)	ND (µg/L)	ND (µg/L)	ND (µg/L)	5/1/40/30/13 µg/L	5/5/100/70/1000 µg/L

(1) The California Action Level is based on the Risk-Based Screening Levels (RBSL) produced by the RWQCB (Appendix 1). For Toluene and Xylenes in soil the CA Action levels are 100 and 1 mg/kg, respectively.
(2) The Nevada Action Levels are based on the Nevada Administrative Code, 459.9921 through 459.999 and the EPA Universal Treatment Standards (UTS)

Figure 1, Tahoe Asphalt Inc., So Lake Tahoe, CA





SITE MAP

Tailings Pond and Silt-Sample Locations
Tahoe Asphalt, South Lake Tahoe, California

SCS Corporation, Inc.
(510) 625-8175

FIGURE 2
SCS034
April, 2002

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Schutze Consulting	Client Project ID: SC5031; Tahoe Asphalt	Date Sampled: 04/12/02
436 14th Street STE.801		Date Received: 04/12/02
Oakland, CA 91612	Client Contact: Jan Schutze	Date Extracted: 04/12/02
	Client P.O.:	Date Analyzed: 04/13/02-04/19/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0204246

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
001A	TA 1	S	20,b	ND<50	10	82.1
002A	TA 2	S	20,b	ND<50	10	85.9
003A	TA 3	S	13,b	ND<50	10	86.9
004A	TA 4	S	11,b,g	14	1	103
005A	TA 5	S	25,b	ND<50	10	87.1
006A	TA 6	S	30,b,g	28	5	96.1
007A	TA 7	S	71,g	ND<250	50	117
008A	TA 8	S	24,b,g	30	2	98.2
009A	TA 9	W	ND	ND	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	ug/L
	S	1	5	mg/Kg

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or, surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent.

DHS Certification No. 1644 Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Schutze Consulting	Client Project ID: SC5031; Tahoe Asphalt	Date Sampled: 04/12/02
436 14th Street STE.801		Date Received: 04/12/02
Oakland, CA 91612	Client Contact: Jan Schutze	Date Extracted: 04/12/02
	Client P.O.:	Date Analyzed: 04/13/02-04/19/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0204246

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TA 1	S	ND	N/A	N/A	N/A	N/A	N/A	1	118
002A	TA 2	S	ND	N/A	N/A	N/A	N/A	N/A	1	111
003A	TA 3	S	ND	N/A	N/A	N/A	N/A	N/A	1	106
004A	TA 4	S	ND	N/A	N/A	N/A	N/A	N/A	1	107
005A	TA 5	S	ND	N/A	N/A	N/A	N/A	N/A	1	---#
006A	TA 6	S	ND	N/A	N/A	N/A	N/A	N/A	1	117
007A	TA 7	S	ND	N/A	N/A	N/A	N/A	N/A	1	110
008A	TA 8	S	ND	N/A	N/A	N/A	N/A	N/A	1	118
009A	TA 9	W	ND	N/A	N/A	N/A	N/A	N/A	1	105
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5	0.5	0.5	0.5	0.5	ug/L	
		S	1	0.05	0.005	0.005	0.005	0.005	mg/Kg	

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment, j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Schutze Consulting	Client Project ID: SC5031; Tahoe Asphalt	Date Sampled: 04/12/02
436 14th Street STE.801		Date Received: 04/12/02
Oakland, CA 91612	Client Contact: Jan Schutze	Date Extracted: 04/12/02
	Client P.O.:	Date Analyzed: 04/13/02-04/19/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0204246

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TA 1	S	N/A	N/A	ND	ND	ND	ND	1	118
005A	TA 5	S	N/A	N/A	ND	0.0078	ND	0.013	1	--#
008A	TA 8	S	N/A	N/A	ND	ND	ND	0.0095	1	118
009A	TA 9	W	N/A	N/A	ND	ND	ND	ND	1	105

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	ug/L
	S	1	0.05	0.005	0.005	0.005	0.005	mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

0204246 25SC6

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY ☒

Report To: Jan Schutze Bill To: SCS Corp
Company: ~~SCS Corp~~ Schutze Consulting
Tele: (530) 625 8175 Fax: ( ) 625 8176
Project #: SCS031 Project Name: Tahoe Asphalt
Project Location: South Lake Tahoe
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 – 8015) MTBE	TPH as ~~Diesel~~ (8015) Multi Range (TPH Gas)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	pH	TSS	Specific Conductivity	Comments
TA 1		4/12	220	2			X				X					X				X													
TA 2			215	2			X				X					X																	
TA 3			210	2			X				X					X																	
TA 4			200	2			X				X					X																	
TA 5			145	2			X				X					X				X													
TA 6			135	2			X				X					X																	
TA 7			125	2			X				X					X																	
TA 8			115	2			X				X					X				X													
+1 TA 9			1 PM	2	Voa	X					X	X								X													
				1	Bpl	X					X					X																	

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

	VOAS	O&G	METALS	OTHER
PRESERVATION APPROPRIATE CONTAINERS	✓			

Relinquished By:	Date:	Time:	Received By:
	4/12	515	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Samples are NOT comps!

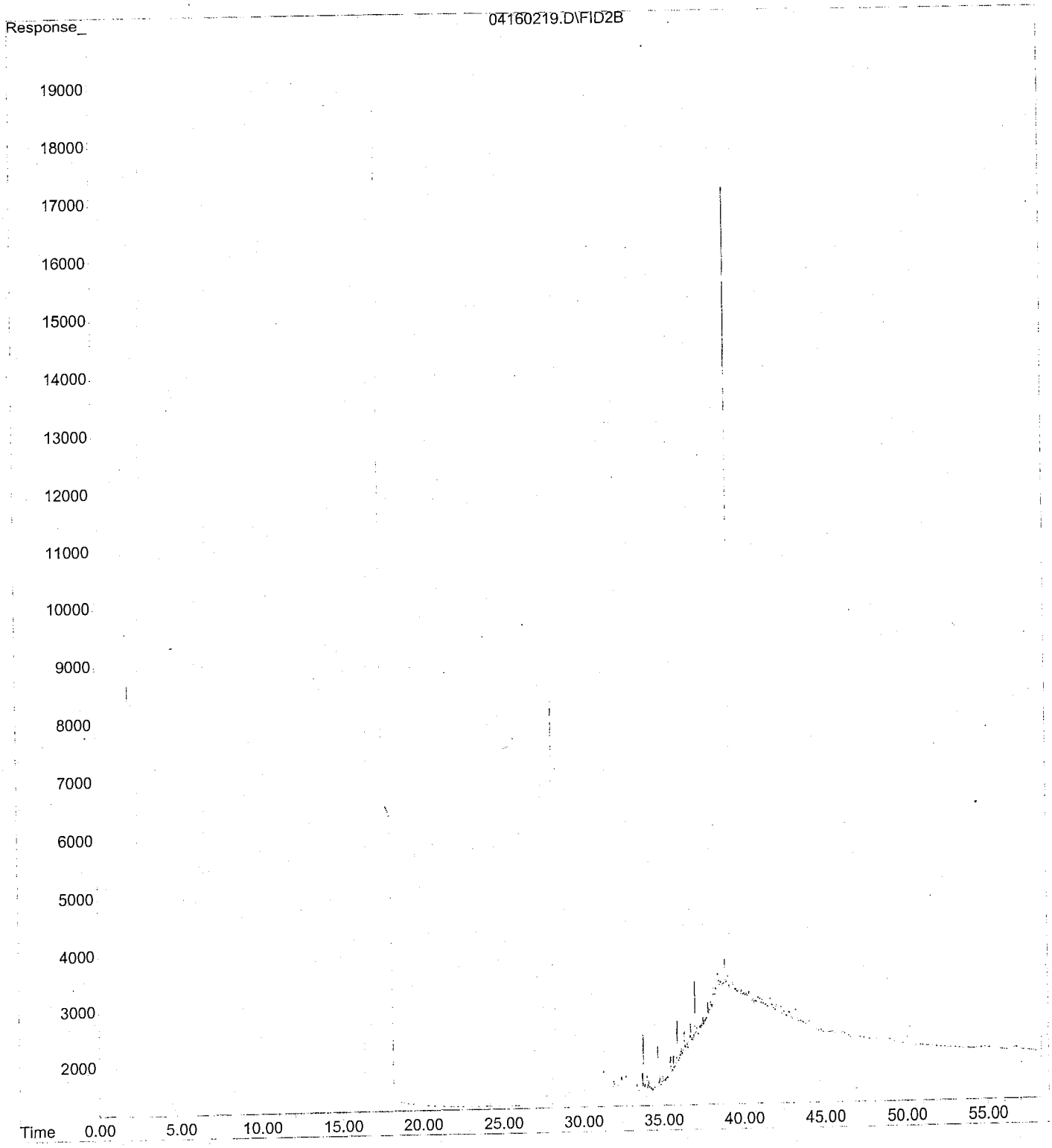
	VOAS	O&G	METALS	OTHER
PRESERVATION APPROPRIATE CONTAINERS				

ICE/t°
GOOD CONDITION
HEAD SPACE ABSENT

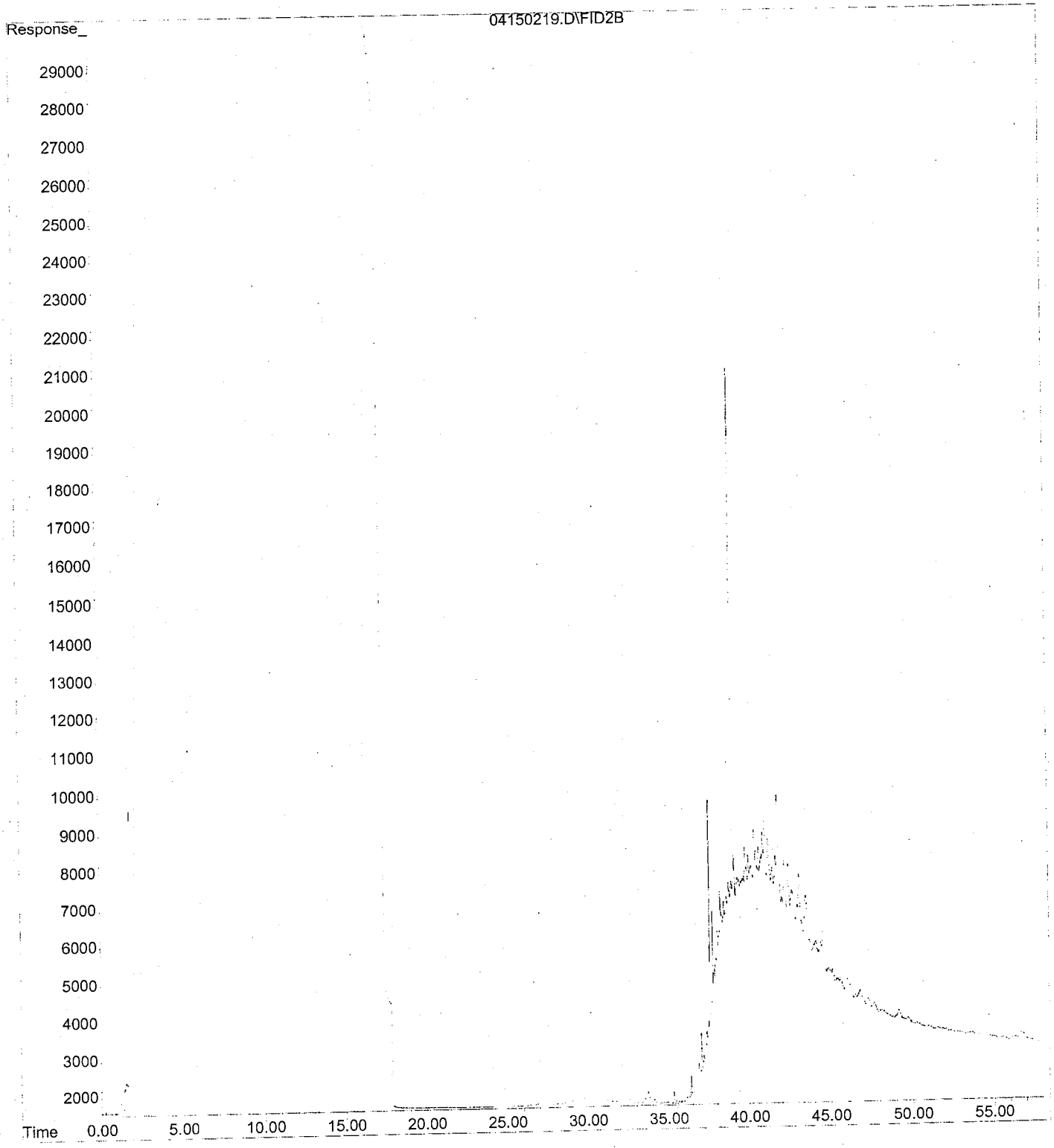
* Need chromatograms for all samples over 80 ppm

GC_6B

File : D:\HPCHEM\2\DATAB\04160219.D
Operator : Thu
Acquired : 17 Apr 2002 4:30 am using AcqMethod GC6ANEWK.M
Instrument : GC-6
Sample Name: 0204246-007A S RR
Misc Info : TPH(DMO)_S
Vial Number: 60



File : E:\HPCHEM\3\DATAB\04150219.D
Operator : Thu
Acquired : 16 Apr 2002 12:03 am using AcqMethod GC2ANEWP.M
Instrument : GC-2
Sample Name: ~~B~~ Asphalt Std.
Misc Info :
Vial Number: 60



EL DORADO COUNTY AIR POLLUTION CONTROL DISTRICT
2850 FAIRLANE COURT
PLACERVILLE, CA 95667
(530) 621-6662

Application for Air Pollution Control District Authority to Construct (A/C)

ATTENTION: Please read instructions on the reverse side prior to completing. All sections must be completed. (Please print or type). Filing this application **does not** grant permission to construct or to operate equipment.

APPLICANT INFORMATION

1. Firm Name (or DBA): Tahoe Asphalt Phone #: (530) 541 0133
2. Legal owner, if different from DBA: Mike Plumer
3. Equipment address: 1104 Industrial City: So. Lake Tahoe St. CA Zip 96158
(Portable Equipment use Home Base Address)
After hours emergency numbers:
First contact name: Russ Crawford Title: GM Phone #: (530) 577 1233
Second contact name: Mary Burrow Title: O.M. Phone #: (530) 577 7465
4. A/C Contact/Title: Russ Crawford GM Phone (530) 577 - 1233
Mailing Address: P.O. Bx 8378 SLT City/St. CA. Zip 96158
(If different from equipment address)
5. Permit Recipient/Title: Tahoe Asphalt Phone (530) 541 - 0133
Mailing Address: Bx 8378 SLT City/St. CA. Zip 96158
6. Site Contact/Title: Russ - GM Site Phone (530) 541 - 0133
7. Ownership: Gov't. ___ Utility ___ al ___ Partnership ___
8. Nature of Business: Manut ... rete

Dave, I Encorporated The BAG Test on This A/C But if it works ~~and~~ I will Do an A/C on Replacement BAGS

Russ

NATURE OF APPLICATION

1. ___ New equipment to be instal... on).
2. ___ Prefabricated (off-the-she... tion.
3. ___ Amendment to a completed A... Construct.
4. X Modification of existing p...
5. ___ Inactive status permit.
6. ___ Change of Permit Ownership.
7. ___ Condition change.
8. ___ Change of equipment locati...
9. ___ Banking.
10. ___ Other (Explain) ___

DESCRIPTION OF OPERATION

1. Normal Equipment Operating Hour... Weeks/year: ___
2. General Description of Process ... Equipment:
(Add attachments per instructio...

Baghouse change scavenge tube - change direction of Dust screw and move Airlock and Dust Dump to the Rear of Baghouse

3. Estimated Start of Construction Date: 4-1-99 Estimated Completion Date: 6-1-99

SIGNATURE OF AUTHORIZED PERSON Russell Crawford

Print Name/Title Russell Crawford Company: Tahoe Asphalt

****

A.P.C.D. USE ONLY: Approved by: ___ Date: ___ Denied: ___

RECEIVED
MAR 16 1999
AIR POLLUTION

TAHOE ASPHALT INC.
Plant Location 1104 Industrial Ave. So. Lake Tahoe, CA
P.O. Box 8378 So Lake Tahoe, CA 96158
Office: (530) 541-0133 • Fax: (530) 541-1647

3/12/99

District,

This description of work is to accompany my autority to construct for the bag house.

Work to include,

1, Changing the scavange tube back to the previous location.(we had moved it into the side of the baghouse and found that undesirable and will move it back to the dryer inlet ducting.

2, Move the baghouse dust collection airlock and dust flushing system to the rear of the back house and reversing the dust screw to make the baghouse work in a flow system instead of a counter flow system.

These two changes are to reduce the amount of dust on the bags and to help the baghouse run cleaner.

3, To test one ptfe coated bag in the baghouse for wear, durability and dust removal. This bag is the cutting edge technology and is purported to significantly reduce the amount of fine particulate pass through limiting the amount or dust cake required on the bag to achieve proper filtration.

3, Replace the long screw that carries the drop out particulate matter back into the batch process with a larger screw. 9 inch diameter to a 12 inch diameter. The affect on the fugitive dust will be a slight decrease and we are making the change for maintenance reasons.

Please feel free to contact me regarding these changes, I will need to start these on the first of April 1999.

Thank you

Russell Crawford

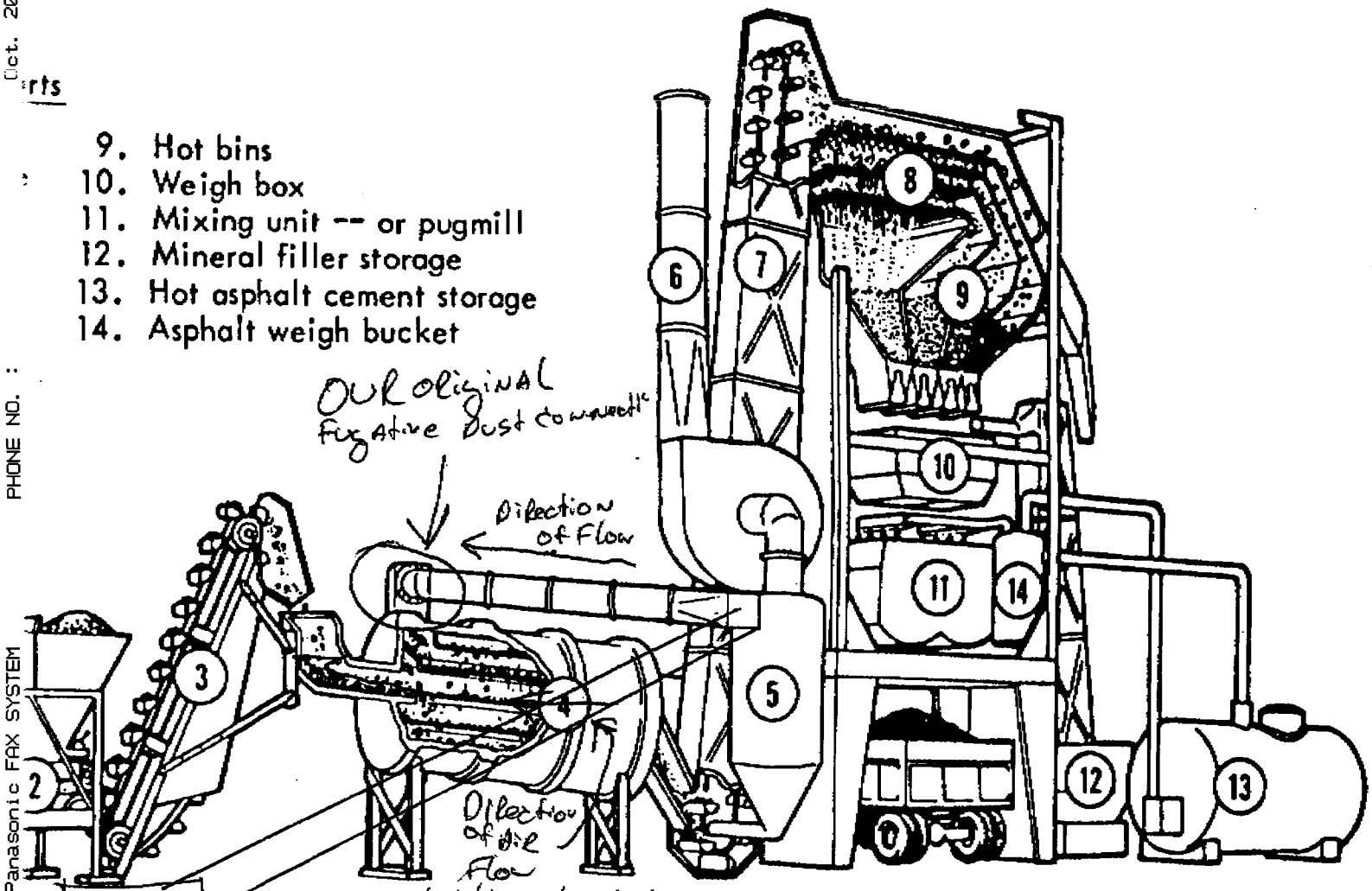
FROM : Panasonic FAX SYSTEM PHONE NO. : Oct. 20 1996 05:05AM P1

...up of related components is discussed in detail in sections that an overview of the processes involved in plant operations will help understand the functions and relationships of the various plant

To Dave L. ...

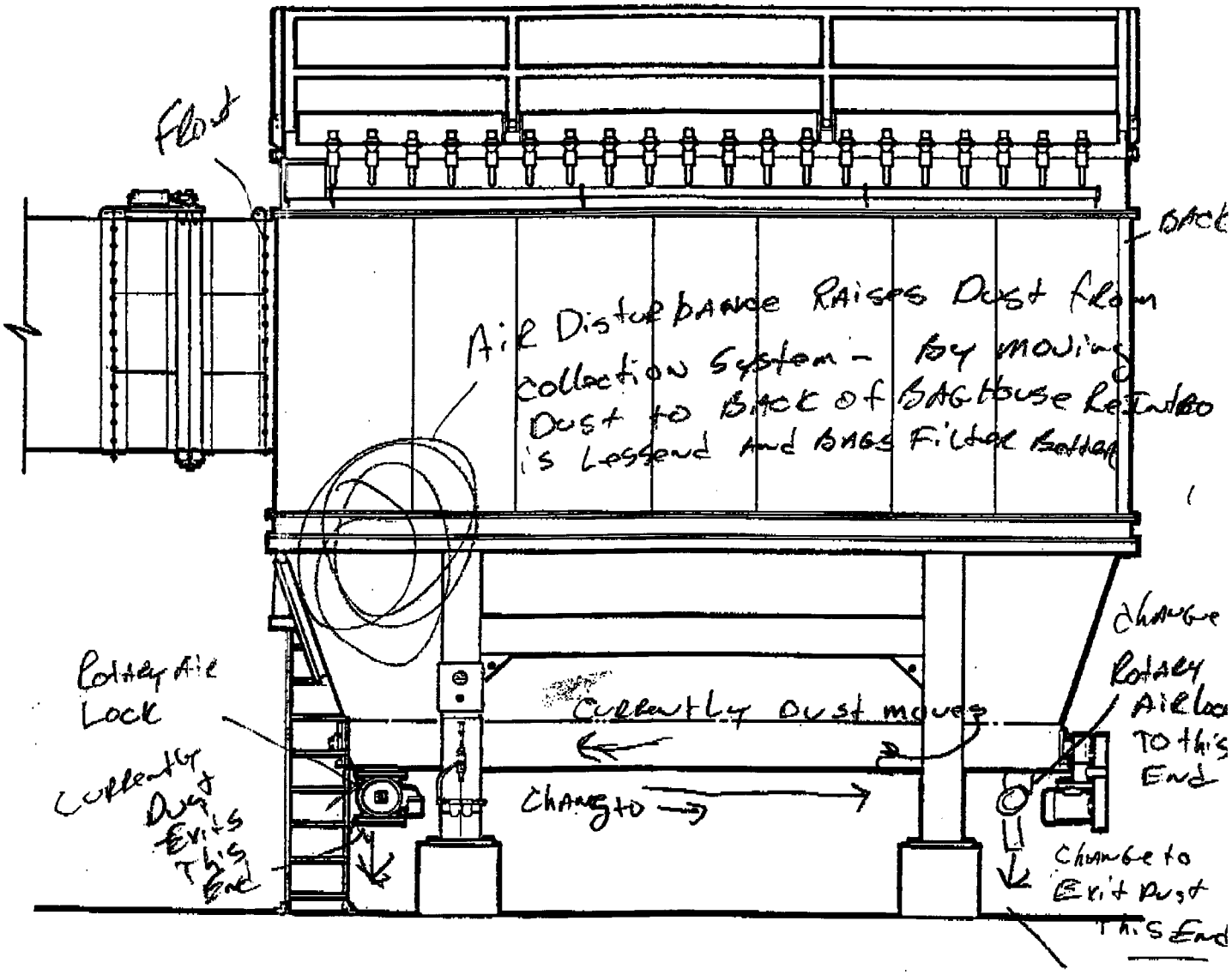
...rts

9. Hot bins
10. Weigh box
11. Mixing unit -- or pugmill
12. Mineral filler storage
13. Hot asphalt cement storage
14. Asphalt weigh bucket



we moved this tube into the side of the Baghouse to Give it FALL + Help it Stay clean. I want to move it BACK to its original position

—Major Batch Plant Components (M...



STANDARD HAVENS MAGNUM® BAGHOUSE
8.5 SERIES

FIGURE B (MAG.)

TAHOE ASPHAL. #167

EL DORAD( )UNTY AIR POLLUTION CONT DISTRICT
2850 FAIRLANE COURT
PLACERVILLE, CA 95667
(916) 621-6662

Application for Air Pollution Control District Authority to Construct (A/C)

ATTENTION: Please read instructions on the reverse side of this form prior to completing. All sections must be completed. (Please print or type). Filing this application **does not** grant permission to construct or to operate equipment.

APPLICANT INFORMATION

1. Firm Name (or DBA): TAHOE Asphalt, Inc.
2. Legal owner, if different from DBA: Michael L. Plumer
3. Equipment address: 1104 Industrial Ave. City/St. So. Lake Tahoe Zip 96158
   (Portable Equipment use Home Base Address)
4. A/C Contact/Title: Michael L. Plumer - Pres. Phone (510) 261 - 0466
   Mailing Address: _____ City/St. _____ Zip _____
   (If different from equipment address)
5. Permit Recipient/Title: Michael L. Plumer - Pres Phone (510) 261 - 0466
   Mailing Address: 2007 Hermine Ave. City/St. Walnut Creek Zip 94596
6. Site Contact/Title: Russ Crawford - Gen. Mgr. Site Phone (916) 541 - 0133
7. Ownership: Gov't. ___ Utility ✓ Corp. ___ Dealership ___ Individual ___ Partnership ___
8. Nature of Business: manufacturing of Asphaltic concrete

NATURE OF APPLICATION

1. ___ New equipment to be installed or construct (original application).
2. ___ Prefabricated (off-the-shelf) equipment not requiring construction.
3. ___ Amendment to a completed Application or existing Authority to Construct.
4. ___ Modification of existing permitted equipment.
5. ___ Inactive status permit.
6. ✓ Change of Permit Ownership.
7. ___ Condition change.
8. ___ Change of equipment location.
9. ___ Banking.
10. ___ Other (Explain) _____

RECEIVED
FEB 15 1995
AIR POLLUTION

DESCRIPTION OF OPERATION

1. Normal Equipment Operating Hours/day: 8 Days/week: 5 Weeks/year: 28
2. General Description of Process Equipment and Air Pollution Control Equipment: (Add attachments per instructions on reverse side).

   Existing Asphalt Plant

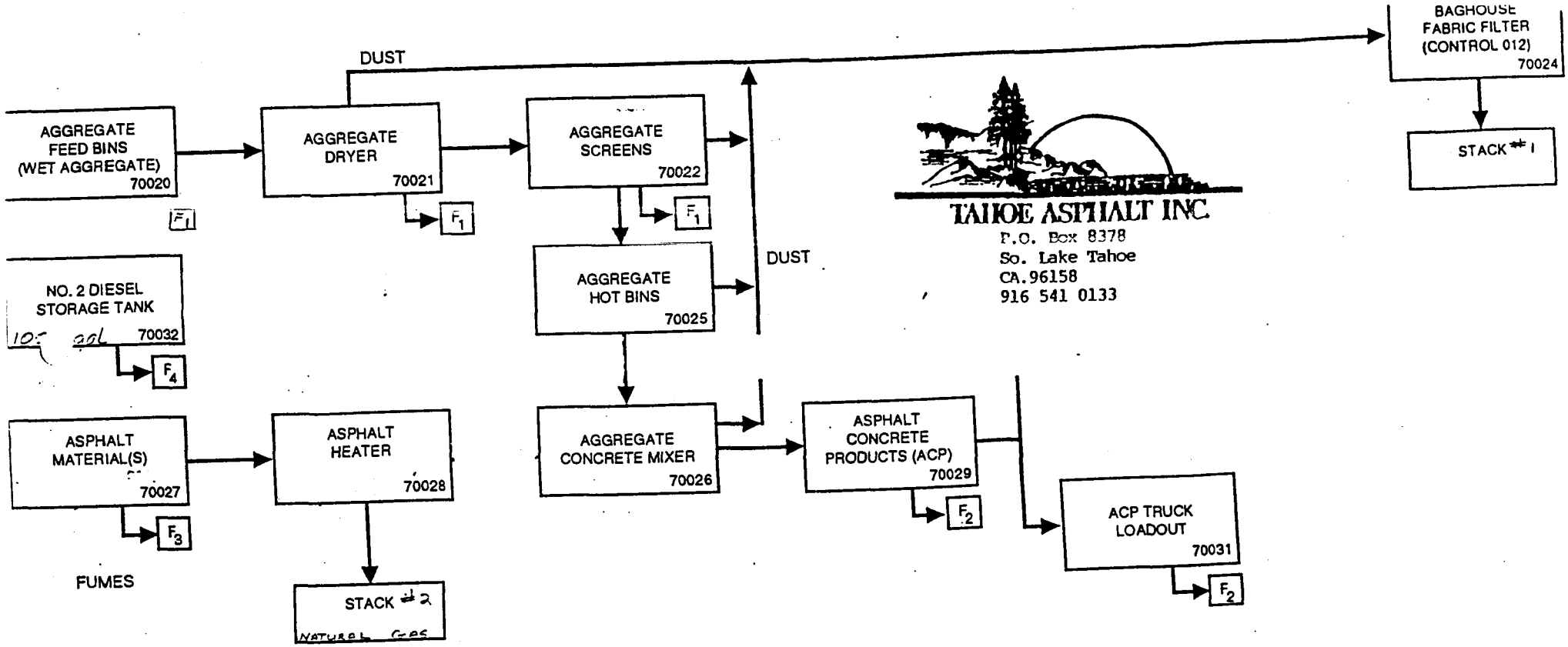
3. Estimated Start of Construction Date: N/A Estimated Completion Date: N/A

SIGNATURE OF AUTHORIZED PERSON

Print Name/Title: Michael L. Plumer Pres. Company: Tahoe Asphalt Inc.

****

A.P.C.D. USE ONLY: Approved by: _____ Date: _____ Denied: _____



TAHOE ASPHALT INC.
P.O. Box 8378
So. Lake Tahoe
CA.96158
916 541 0133

Solvent TANK - 10gALs
Solvent use / year = 15gAL
NAPA Brand tank
10gAL capacity
30min use Daily to clean hands & parts
5 Days / week
30 weeks / yr.

Aggregate mixer =
2ton capacity
Madsen Iron works
144ton max hourly production
2000 ton Daily
120,000 / quarterly
120,000 / year

Our Annual Asphalt Production
Averaged over 12 yrs is 37,000 tons / year

EL DORADO COUNTY AIR POLLUTION CONTROL DISTRICT

SUPPLEMENTAL INFORMATION

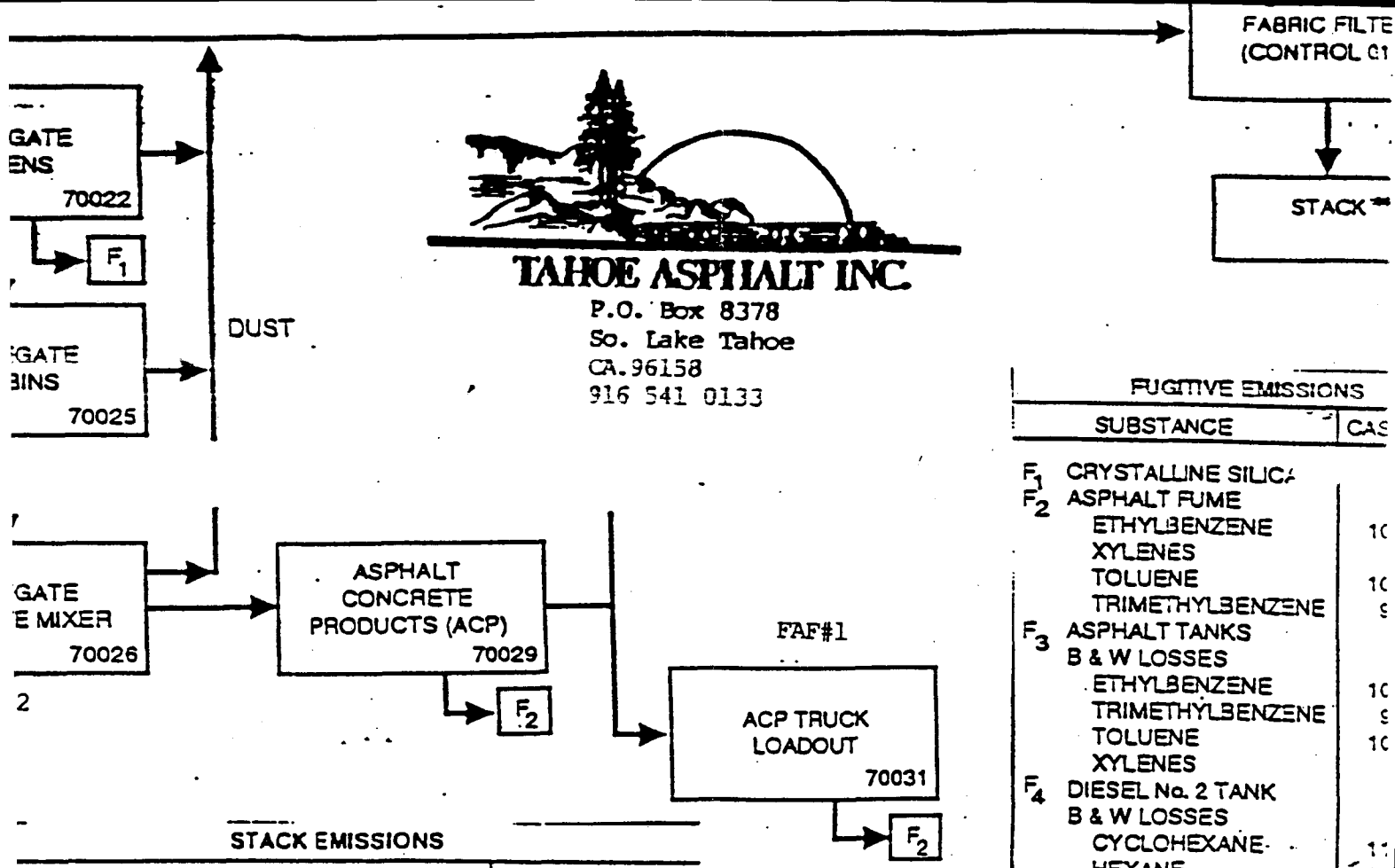
	~~BOILER~~ ~~ASPHALT HEATER~~ Aggregate Dryer
Make MAdsen	MAdsen
Model 48 x 32	48 x 32
Serial # 0	
Maximum Heat Input Rating	60,000,000 BTU
Primary Fuel	N.G.
Maximum hours operated per day	12
Maximum hours operated per 1st calendar quarter	200
Maximum hours operated per 2nd calendar quarter	300
Maximum hours operated per 3rd calendar quarter	300
Maximum hours operated per 4th calendar quarter	200
Maximum hours operated per calendar year	2000
Control device(s)	Baghouse
Backup fuel	~~0~~
Maximum hours operated per day	
Maximum hours operated per 1st calendar quarter	
Maximum hours operated per 2nd calendar quarter	
Maximum hours operated per 3rd calendar quarter	
Maximum hours operated per 4th calendar quarter	
Maximum hours operated per calendar year	
Control device(s)	

EL DORADO COUNTY AIR POLLUTION CONTROL DISTRICT

SUPPLEMENTAL INFORMATION

AGGREGATE SCREENING

Screen ID	
Make	Cedar Rapids
Model	Ø
Serial #	Ø
# of decks	2
Maximum processed per hour	200/hr
Maximum processed per day	400/DAY
Maximum processed per 1st calendar quarter	2000
Maximum processed per 2nd calendar quarter	5000
Maximum processed per 3rd calendar quarter	5000
Maximum processed per 4th calendar quarter	2000
Maximum processed per calendar year	25,000
Control device(s)	Ø
Minimum moisture content of aggregate entering screen	8-12%



TAHOE ASPHALT INC.
P.O. Box 8378
So. Lake Tahoe
CA.96158
916 541 0133

FUGITIVE EMISSIONS	
SUBSTANCE	CAS
F_1 CRYSTALLINE SILICA	
F_2 ASPHALT FUME	
ETHYLBENZENE	10
XYLENES	
TOLUENE	10
TRIMETHYLBENZENE	9
F_3 ASPHALT TANKS	
B & W LOSSES	
ETHYLBENZENE	10
TRIMETHYLBENZENE	9
TOLUENE	10
XYLENES	
F_4 DIESEL No. 2 TANK	
B & W LOSSES	
CYCLOHEXANE	11
HEXANE	12

STACK EMISSIONS	
SUBSTANCE	CAS/CODE
DIESEL No. 2 COMBUSTION BY-PRODUCTS, i.e., BENZENE AND OTHERS	71432
CRYSTALLINE SILICA	1175
SPECIATED POMs	
ANTHRACENE	120127
CHRYSENE	218019
BENZ[a]ANTHRACENE	56553
7,12-DIMETHYLBENZ[a]ANTHRACENE	57976
BENZO[b]FLUORANTHENE	205992
BENZO[a]PYRENE	50328
3-METHYLCHOLANTHRENE	56495
DIBENZ[a, h]ANTHRACENE	53703
INDENO[1, 2, 3-cd]PYRENE	193395
7H-DIBENZO[c, g]CARBAZOLE	194592
DIBENZO[a, h]PYRENE	189640
DIBENZO[a, i]PYRENE	189559

FAF

Fugative Asphalt Fumes = F.A
Fugative Dust = F.D.
Diesel Combustion Emissions = D.

TAHOE ASPHALT INC.
P.O. Box 8378
So. Lake Tahoe
CA.96158
916 541 0133

WORK COPY

Emission Inventory Plan
Page 2A

SOURCE IDENTIFICATION:

Following is a numbered list of sources taken from the flow diagram. Sources are grouped by type of emissions produced at the end of each list will be an example of calculations to quantify the emissions.

FD 1 Agg Feed Bins
FD 2 Equipment Travel
FD 3 Agg Dryer *
FD 4 Agg Screens *
FD 5 Agg Hot Bins *

The Substances to be tested for are listed under Particulate Emissions. Calculating these will be done in the following manner.
We will us data from Air Pollution Factors, Volume I Stationary Point and Area Sources, AP-42 This will give us the rate per production values that we will calculate our own emissions from. The above astiriked items are captured by the baghouse and are shown but need not be quantified as they do not produce pollutants unless there is an upset condition.

DE 1 Diesel Combustion in equipment
This will be quantified by using the number of hours per year of equipment usage and using ARB data on diesel combustion emissions.

FDF 1 Fugitive Diesel Fumes
Breathing and evaporation losses will be calculated using ARB data on the losses calculated on either the tank size and or the average fuel loading in the tank

FAF 1 Fugitive Asphalt Fumes at Truck Loadout
FAF 2 Fugitive Asphalt Fumes at Agg Mixer
FAF 3 Fugitive Asphalt Fumes (B&E losses) Asphalt Tank
FAF 1&2 will be calculated using ARB and industry information per production rates and then calculating per our production
FAF 3 will be calculated using ARB

TAHOE ASPHALT
#167

EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT
AIR POLLUTION CONTROL DISTRICT
2850 Fairlane Court, Placerville, CA 95667
Phone: (916) 621-6662

EL DORADO COUNTY
RECEIVED
FEB 14 1995
ENVIRONMENTAL MANAGEMENT

NOTICE OF OWNER/OPERATOR CHANGE

1. Business license name or corporation, company, individual owner, or governmental agency that is to operate the equipment:

   TAHOE Asphalt, Inc.

2. Mailing address: 2007 Hermine Ave. (510) 261-0466
   Number Street Telephone

   No.

   Walnut creek CA. 94596
   City State Zip

3. General nature of business: manufacturing of Asphaltic concrete

4. Your Air Pollution Control 'Permit to Operate' Number: 08-167-01

5. Above equipment to be operated at: 1104 Industrial Ave.
   (Actual street address) Number Street

   So. Lake Tahoe
   City

6. Estimated starting date: mid May

7. Signature of responsible officer, partner or proprietor of firm:

   Michael L. Clemens Pres. Feb. 8 1995
   Signature Title Date

RECEIVED
FEB 15 1995
AIR POLLUTION

GASOLINE STORAGE TANK INFORMATION ONLY

TYPE OF GASOLINE	TANK SIZE GALLONS	THROUGHPUT GALLONS/MONTH	NUMBER OF NOZZLES
	N/A		

DESCRIPTION OF VAPOR RECOVERY EQUIPMENT: _____

ph:form:newnamc.frm

Conoco Inc.

ASPC0010

Revised 24-Oct-91 Printed 03-Dec-91

EL DORADO COUNTY
RECEIVED
OCT 0 1994
ENVIRONMENTAL MANAGEMENT

Regular HT MIX
asphalt emulsions
asphalt cutbacks

ASPHALT

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252
Phone Numbers	General Information 1-(713)293-5550 Transport Emergency 1-(800)424-9300 Medical Emergency 1-(800)441-3637
Chemical Family	Petroleum Hydrocarbons
Trade Names and Synonyms	PAVING GRADES AR-1000, AR-2000, AR-4000, AR-8000, AR-16000 AR-4000 Smokeless, AR-8000 Smokeless - PBA GRADES PBA-1, PBA-1a, PBA-2, PBA-4, PBA-5 - VISCOSITY GRADES AC-2.5, AC-5, AC-10, AC-20, AC-30, AC-40 AC-10 Table II, AC-10-D Table II AC-20 Table II, AC-20-D Table II - PENETRATION GRADES 20/30, 40/50, 60/70, 85/100, 120/150 - AASHTO M20-70 or M226-80 ASTM D-946-82 or ASTM D-3381-83 - PRODUCT CODES 7089, 7095, 7109, 7110, 7111, 7112, 7113, 7114, 7169, 7170, 7171, 7172, 7174, 7176, 7178, 7179, 7181, 7182, 7183, 7184, 7186, 7188, 7206, 7226, 7227
CAS Number	8052-42-4
NFPA Ratings	Health: 1 Flammability: 1 Reactivity: 0
NPCA-HMIS Ratings	Health: 2 Flammability: 1 Reactivity: 0 Personal Protection rating to be supplied by user depending on use conditions.
WHMIS Classification	CLASS D Division 1 Subdivision A : Very Toxic Material/Acute Lethality CLASS D Division 2 Subdivision B : Toxic Material. Skin or Eye Irritant.

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Denn *(303) 649-4179" — TDM Claret 916 685-9253

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Percent
Petroleum Asphalt	8052-42-4	100
Hydrogen Sulfide	7783-06-4	<0.1

Hydrogen sulfide is not normally present in the product, but if the material is heated at high temperatures for an extended period of time, hydrogen sulfide may exist in head space of storage vessel.

450°F start at flash
Pt concern

PHYSICAL DATA

Boiling Point	800°F Minimun
% Volatiles	Not Volatile
Water Solubility	Not Soluble
Odor	Petroleum hydrocarbon
Form	Liquid or Semisolid
Color	Black
Specific Gravity	= or >1 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Decomposition	Hazardous gases/vapors produced are carbon dioxide, carbon monoxide, and sulfur dioxide. Conditions to avoid: Heat, flame or spark.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	435°F
Method	PMCC
Flammable Limits in Air, % by Volume	LEL Not Available UEL Not Available
Autoignition	905°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA). This product contains sulfur which may cause the formation of pyrophoric deposits in the vapor space of hot asphalt storage tanks. These pyrophoric deposits are potential ignition sources for flammable vapors that may accumulate in the vapor space of confined storage vessels.

(continued)

Odor → Nitrogen
Paving → once cooled
above 260 degrees →
VOC → NON
500 — 00 you can get VOC off of it
"TIECHTR" CONSTRUCTION — ASPHM
Vent of Tank is ducted to burner

Cold Tank —
Open tank when it cools
of over you draw moisture
from atm so when
— Moisture is medium in carrying
Odor

FIRE AND EXPLOSION DATA (continued)

Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	Water or foam coming in contact with hot asphalt may cause frothing or may result in the evolution of steam. In a confined space such as a storage tank, the evolution of steam may result in a rapid pressure increase and/or substantial foaming of the product. While water and foam are effective extinguishing agents, great caution must be exercised if hot asphalt is contacted with water or a water containing agent. Water and water spray may be used to keep fire exposed containers cool and to flush spills away from exposure. Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

HEALTH HAZARD INFORMATION

Acute Toxicity Data - Not Available

Other -

Primary Route(s) of Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:
The heated product may cause irritation to eyes, skin and lungs after prolonged or repeated exposure; hot asphalt can cause thermal burns and unheated asphalt can cause irritation. Overexposure to the fumes of heated product should be avoided. Hydrogen sulfide is not normally present in the product but can be generated and accumulate in the container head-space if the asphalt is heated at high temperatures for an extended period of time. Hydrogen sulfide can be irritating at low concentrations to the eyes, skin and lungs. At higher concentrations, loss of ability to smell hydrogen sulfide, respiratory paralysis and death may occur.

The International Agency for Research on Cancer, IARC, conducted a thorough literature search in 1985 and determined that there is inadequate evidence for the carcinogenicity of undiluted air-refined asphalt in animals or humans. IARC also concluded that mouse skin painting studies showed that extracts of asphalts caused skin tumors; IARC would therefore classify a solvent extract of asphalt as a 2B carcinogen (sufficient evidence in animal studies). However, these extracts were derived by using benzene or toluene as the solvent and the resulting extract does not realistically characterize asphalt to which humans are exposed. The same criticism applies to studies that showed roofing asphalt fume condensate or steam-refined asphalt caused skin cancer in similar mouse painting studies. These animal data should be interpreted cautiously since the health effects may be dependent on variables such as solvent extraction/solvent dilution, source of crude oil,

(continued)

HEALTH HAZARD INFORMATION (continued)

manufacturing process and that these studies involved repeated exposure of shaved skin which was never washed free of test material.

In considering the above information, remember that good hygienic practices can be helpful in preventing adverse health effects; for example, exposure to asphalt and its fumes can be minimized by using protective clothing or devices and skin contaminated with asphalt should be washed. The possibility of thermal burns from hot asphalt acts as a deterrent against skin, eye or inhalation exposure. Intermittent or occasional skin contact with petroleum asphalts is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this material safety data sheet, are followed. The real health risk for any chemical exposure is related to the degree of exposure.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Exposure Limits	
ASPHALT	
AEL * (Du Pont)	None Established
TLV (ACGIH)	5 mg/m3 - 8 Hr TWA, as Asphalt Fumes
PEL (OSHA)	None Established
Other Applicable Exposure Limits	
Hydrogen Sulfide	
AEL * (Du Pont)	10 ppm - 8 & 12 Hr. TWA
TLV (ACGIH)	10 ppm, 14 mg/m3 - 8 Hr TWA STEL 15 ppm, 21 mg/m3
PEL (OSHA)	10 ppm, 14 mg/m3 - 8 Hr TWA STEL 15 ppm, 21 mg/m3

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Safety Precautions	Avoid breathing vapors or mist. Normal precautions for handling hot, molten liquid or solutions. Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. If exposure to hydrogen sulfide is likely, see below.
Skin Contact	In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse. If exposed to hot material, cool immediately with cold water. Do not attempt to remove material. Consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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FIRST AID (continued)

Ingestion

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

HYDROGEN SULFIDE
Because hydrogen sulfide can cause death, rescuers must wear positive-pressure full facepiece, self-contained or supplied-air NIOSH approved respirators before attempting rescue, if hydrogen sulfide is present.

Notes to Physician

Activated charcoal slurry may be administered.
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.
Administer 5mL/kg, or 350mL for an average adult.

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal ventilation unless vapor, fume, or hydrogen sulfide concentrations are high, then mechanical ventilation should be used.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below the acceptable limits in the Health Hazard Section. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.

In situations where the material is exposed to high temperatures for extended periods of time, hydrogen sulfide may build up in unventilated storage vessel head spaces. A NIOSH-approved full face, air-supplied respirator or self contained breathing equipment should be used when first opening these storage vessels.

Protective Gloves: Should be worn when any potential exists for skin contact. NBR or neoprene recommended. Use insulated gloves where material is being handled hot.

Eye Protection: Chemical goggles, if material is hot. Safety glasses with side shields if material is cold.

Other Precautions: Skin contact should be minimized. Clean exposed skin with waterless hand cleaner followed by soap and water. Complete protective clothing if material is being handled hot. Launder contaminated clothing.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Recover undamaged and minimally contaminated material for reuse or

(continued)

SPILL, LEAK AND DISPOSAL INFORMATION (continued)

	Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up. Allow hot asphalt to cool.
Waste Disposal	Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT Proper Shipping Name	Not regulated (unless offered or intended for transportation by water)
IATA/IMO Proper Shipping Name	Not restricted.
TDG This Material is Not Regulated.	
	Special Information: May contain organic bound sulfur. Storage or transportation at high temperatures may cause evolution of toxic hydrogen sulfide gas and accumulation in the head space.

STORAGE CONDITIONS

Refer to the following publications entitled "Safe Storage and Handling of Hot Asphalt"; The Asphalt Institute, Information Series No. 180 and "Guide for the Safe Storage and Handling of Heated Petroleum-Derived Asphalt Products and Crude Oil Residues"; American Petroleum Institute, No. 2023 publication.

TITLE III HAZARD CLASSIFICATIONS

Acute	Yes
Chronic	No
Fire	No
Reactivity	No
Pressure	No

(continued)

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

EPA DETERMINATIONS

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302
Not applicable, this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)
The material is not known to contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)
The material is not known to contain any chemical(s) on the list of toxic chemicals or subject to toxic chemical release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA)(40 CFR 710)
The material is in the TSCA Inventory of Chemical Substances and/or is otherwise in compliance with TSCA.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D
The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311
The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	: Petroleum Hydrocarbon
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shoreline.

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REGULATORY INFORMATION (continued)

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS,
49 CFR 171-178.
Not Applicable

FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)
WHMIS Classes D1A, D2B
Medical Emergency Information: 1-613-348-3616
Transportation Emergency: 1-613-348-3616

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")
The material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT
To the best of our knowledge the material is not sold or produced in Pennsylvania. Please notify Conoco at the the telephone number noted below if the material results in Pennsylvania commerce.

ADDITIONAL INFORMATION AND REFERENCES

Product Use: Paving Asphalt and Emulsion Base Stocks

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
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Houston, TX 77252
713/293-5550

End of MSDS