



**AGENDA
REGULAR SESSION
GARDEN RIDGE QUARRY COMMISSION MEETING
Monday, November 13, 2017 at 6:00 p.m.**

The Garden Ridge City Quarry Commission will meet in regular session on Monday, November 13, 2017 at 6:00 p.m. in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on or before November 9, 2017 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made 48 hours prior to this meeting.

1. Call to Order :
2. Roll Call:
3. Approval of Minutes:
 - a. September 11, 2017 Regular Quarry Commission Meeting
4. Citizens Comments – Limited to 30 minutes

Rules for Citizen's Participation:

The Quarry Commission welcomes citizen participation and comments at all of their Commission Meetings. The Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. As a courtesy to your fellow citizens and out of respect for our appointed officials, we request that if you speak, you follow these guidelines:

- a) Respect and courtesy:
 - i. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
 - ii. Show the Commission the same respect that you would like to be shown.
 - iii. Show the Commission courtesy by ending your speaking at the time allotted below.
- b) Speaking:
 - i. First citizen comment period
 - a. You are required to sign up to speak.
 - b. You are limited to three (3) minutes per citizen.
 - ii. Business item period
 - a. You are required to sign up to speak.
 - b. You are limited to three (3) minutes per citizen.
 - iii. Second citizen comment period
 - a. You are not required to sign up.
 - b. You are limited to two (2) minutes per citizen.
 - iv. State your name and address before your comments begin.

- v. Citizens are only allowed to speak once, unless also speaking during a posted Public Hearing.

NOTE: *The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting. However, any discussion of the subject must be limited to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy. TEX. GOV'T CODE § 551.042.*

5. Business Items:

The City Quarry Commission may discuss, consider, and /or take possible action for possible recommendation to the City Council for the following items:

- a. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratech. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.
- b. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.
- c. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratech and notification to residents of monitor placements. Discuss request from Gary Larrew, 9107 Cinnabar Court, for a temporary monitor at his residence.
- d. Nominations and vote on:
 1. Quarry Commission Chair
 2. Quarry Commission Vice-Chair
- e. Discuss Grapevine article topics.
- f. Presentation by Orica regarding the velocity of detonation.
- g. Discuss future training sessions.

6. Citizen's Participation - Limited to 20 minutes

See "Rules for Citizen's Participation" under Item 4.

7. Adjournment:

AGENDA NOTICES:

Decorum Required:

Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

Action by Commission Authorized:

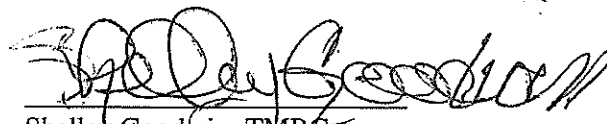
The City Quarry Commission may vote and/or act upon any item within this Agenda. The Commission reserves the right to retire into executive session concerning any of the items listed on this Agenda, pursuant to and in accordance with Texas Government Code Section 551.071, to seek the advice of its attorney about pending or contemplated litigation, settlement offer or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas conflict with the Open Meetings Act and may invoke this right where the City Attorney, the Mayor or a majority of the Governing Body deems an executive session is necessary to allow privileged consultation between the City Attorney and the governing body, if considered necessary and legally justified under the Open Meetings Act. The City Attorney may appear in person, or appear in executive session by conference call in accordance with applicable state law.

Executive Sessions Authorized:

This agenda has been reviewed and approved by the City's legal counsel and the presence of any subject in any Executive Session portion of the agenda constitutes a written interpretation of Texas Government Code Chapter 551 by legal counsel for the governmental body and constitutes an opinion by the attorney that the items discussed therein may be legally discussed in the closed portion of the meeting considering available opinions of a court of record and opinions of the Texas Attorney General known to the attorney. This provision has been added to this agenda with the intent to meet all elements necessary to satisfy Texas Government Code Chapter 551.144(c) and the meeting is conducted by all participants in reliance on this opinion.

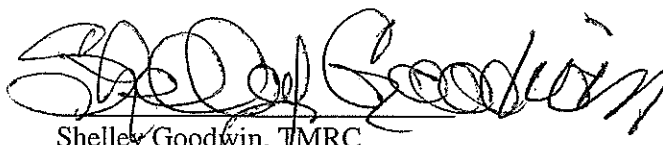
Attendance By Other Elected or Appointed Officials:

It is anticipated that members of other city board, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action is specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.



Shelley Goodwin, TMRC
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 12:00 pm on November 9, 2017 on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Shelley Goodwin, TMRC
City Secretary



City of Garden Ridge

"A way of life, not just a place to live"

MINUTES OF QUARRY COMMISSION REGULAR SESSION **SEPTEMBER 11, 2017**

Members Present:

Vice Chairman Wayne Mudge
Commissioner Albert Haddad
Commissioner Richard Holloway
Commissioner Jerry Barucky
Commissioner Mark DuBois
Commissioner Johnell Holly (arrived 6:05)

Member Absent:

Chairman Mike Shands

City Staff Present:

Nancy Cain, City Administrator
Lori Claus, Administrative Assistant
Bryan Lantzy, Councilmember (Ex-officio member)

1. Call to Order

With a quorum of the Quarry Commission Members present, Vice Chairman Wayne Mudge called the special session of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Tuesday, September 11, 2017, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Roll Call

Commissioners Mudge, Haddad, Holloway, Barucky and Dubois appeared.

3. Approval of Minutes:

a) July 10, 2017 Regular Quarry Commission Meeting

Motion: Upon motion made by Commissioner Haddad and seconded by Commissioner Holloway to approve the July 10, 2017 Regular Quarry Commission Meeting Minutes. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

b) August 31, 2017 Special Session Commission Meeting

Motion: Upon motion made by Commissioner Holloway and seconded by Commissioner Dubois to approve the August 31, 2017 Special Session Meeting Minutes. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

4. Citizens Comments

No one wished to speak.

5. Business Items:

The City Quarry Commission may discuss, consider, and /or take possible action for possible recommendation to the City Council for the following items:

- a. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratex. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.**

Nicholas Rightinger of Vibra-Tech presented and discussed the July blast analysis. He stated that 14 blasts occurred during the month of July and none of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on July 25, 2017, in Wall 3C, with 0.248 ppv and frequency of 11.9 Hz, recorded at the Warden residence. The strongest air blast occurred on July 11, 2017, in South Wall D with an overpressure of 122 dB recorded at the Michels residence. He also discussed the timing and shots.

Nicholas Rightinger of Vibra-Tech presented and discussed the August blast analysis. He stated that 11 blasts occurred during the month of August and none of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on August 15, 2017 in Wall 3C with 0.315 ppv and both with a frequency of 8.8 Hz recorded at the Warden residence. The strongest air blast occurred on August 9, 2017, in Wall 3H with an overpressure of 119 dB recorded at the Warden residence and Warden Property Line. He also discussed the timing and shots.

- b. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.**

Nicholas Rightinger, Vibra-Tech, reviewed the shot reports for each citizen blast report received during the months of July, August and early September, as follows:

- Jim Lowe (7/10/17 blast) – The highest air over pressure reading that day was 108 dB.
- Edwin Ford (7/4/17 blast) – There was no blast on 7/4/17 at 1:30 PM. Vibra-Tech checked the blast from 7/3/17 guessing that Mr. Ford wrote the wrong date. However, the 7/3/17 blast occurred at 12:30 PM, which does not correlate to the date/time of the blast complained of.
- Edwin Ford (7/5/17 blast) for excessive ground vibrations and air blast. The shot was in Upper 3B with readings at the Warden residence of .203 PPV, 11.9 Hz and 109.0 dB.
- Edwin Ford (7/6/17 blast) for excessive ground vibrations and air blast. The shot was at Bench 3 with readings at the Warden residents of .248 PPV, 13.2 Hz and 106.0 dB.
- Edwin Ford (7/7/17 blast) for loudness. Problems with recording of this blast were acknowledged. The shot was delayed (5:30 PM) and of the 10 seismographs set out to record readings, 9 failed due to overheating issues. Readings at the Schneider Lane

monitor were 0.055 PPV, 8.9 Hz and 102 dB. In the future, in extreme heat conditions, seismographs will be wrapped with reflective blankets or shaded with umbrellas to prevent failure.

- Charles Flink (7/10/17 blast). Readings at Michels, which is the closest to Mr. Flink's resident, were .123 PPV, 7.4 Hz and 121 dB. As blasts get closer to the highway (FM 3009), the Georg Ranch subdivision will feel more and more complaints are expected. Blasting close to FM 3009 should go on at least one year.
- Rebeca Mattison / Steve Hatley (8/30/17 blast) – roof shook. The Hatley residence is in Georg Ranch and readings at Michels were .193 PPV, 7.4 Hz and 105 dB.
- David Gordon (9/7/17 blast). This blast was at the exceedance line with readings from the Warden residence of .350 PPV, 12.2 Hz and 122 dB.

VibraTech recommends placing a monitor at the Gordon residence. Commission Holly will contact Mr. Gordon. Commission Dubois will contact Mr. Lowe.

- c. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibrattech and notification to residents of monitor placements. Discuss request from Gary Larrew, 9107 Cinnabar Court, for a temporary monitor at his residence.**

Commission discussed the placement of the roving monitor. It is currently at the Cozean residence and should be moved to the Timmerman residence until the November Quarry Commission meeting. After that, the monitor can be moved to the Larrew residence.

- d. Request from Buckley Powder Company for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry**
 - i. Review request and make recommendation to the City Council.**

Nancy Cain reports that the permit is administratively complete and is for the period of 10/1/17 through 9/30/18. Ms. Cain reports that City Council approved Orica's permit.

Buckley has a good history and has served as a backup to Orica. Hanson has asked them once again to serve as a backup to Orica. In the past year, there were no blasts at Hanson by Buckley.

Motion: Upon motion made by Commissioner Holloway and seconded by Commissioner Holley to and Quarry Commission having reviewed the application packet and found it to be administratively complete, the request from Buckley Power Company for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry is forwarded to Council for action. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

- e. Discuss and possible recommendation of reappointment of Commissioners Shands, Haddad, Holloway and Mudge due to expiring terms of office (September 30, 2017) for a two-year term.**

Commissioners Haddad, Holloway and Mudge expressed their willingness to continue to serve on the Quarry Commission. Commissioner Mudge will contact Commissioner Shands regarding his willingness to continue to serve as Chairman of the Quarry Commission.

Motion: Upon motion made by Commissioner Holly and seconded by Commissioner Dubois to recommend the reappointment of Commissioners Shands (pending his acceptance), Haddad, Holloway and Mudge for a two-year term is forwarded to Council for action. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

f. Discuss Grapevine article topics.

Grapevine articles to continue as previously written.

g. Presentation by Orica regarding the different types of decking, what is it and what it is meant to do and the effect of frequencies and waves during and after blasts.

Nolan Eckroade of Orica explained the use of inert decks versus explosive decks depending on the blast burden; decking helps control the distribution of energy during a blast; and decking addresses the seismic effects of blasts by reducing vibrations.

h. Discuss future training sessions.

Presentation at the November 2017 Quarry Commission meeting to focus on the velocity of detonation.

6. Adjournment:

There being no further business, the Monday, September 11, 2017 Garden Ridge Quarry Commission special session was adjourned at 7:15 p.m. by Vice Chairman Mudge.

Wayne Mudge
Quarry Commission Vice Chair

ATTEST

Lori Claus
Administrative Support Liaison

**SIGN IN TO SPEAK AT THE SEPTEMBER 11, 2017
QUARRY COMMISSION REGULAR MEETING**

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- b. Show the Commission the same respect and courtesy that you expect to be shown to you.
- c. Limit remarks to three (3) minutes.

Disclaimer:

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NAME	ADDRESS	SUBJECT
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

NONE



BLASTHOLE DECKING

September 11, 2017

Nolan Eckroade, Technical Services Engineer

WHAT IS DECKING?



Stemming
(Crushed Stone)

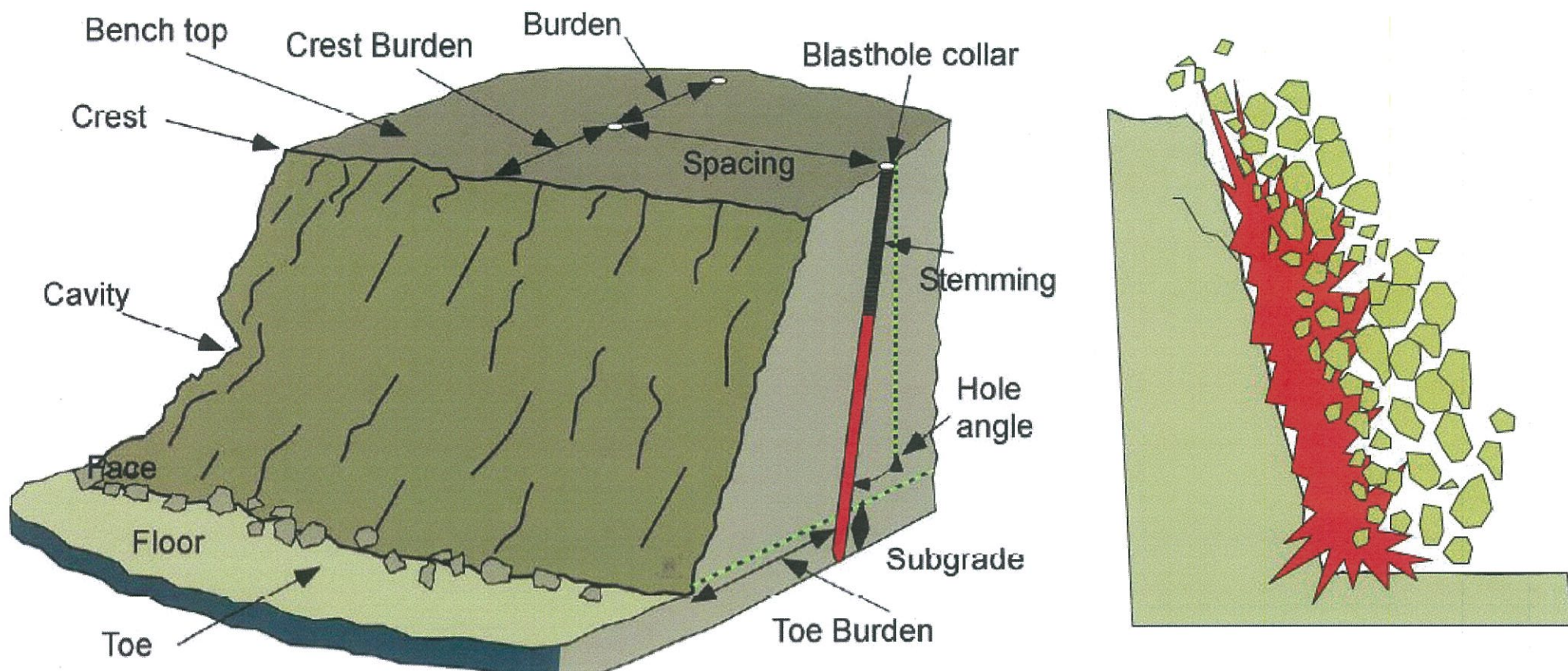
Top Explosives
Deck

Inert Deck
(Crushed Stone)

Bottom Explosives
Deck

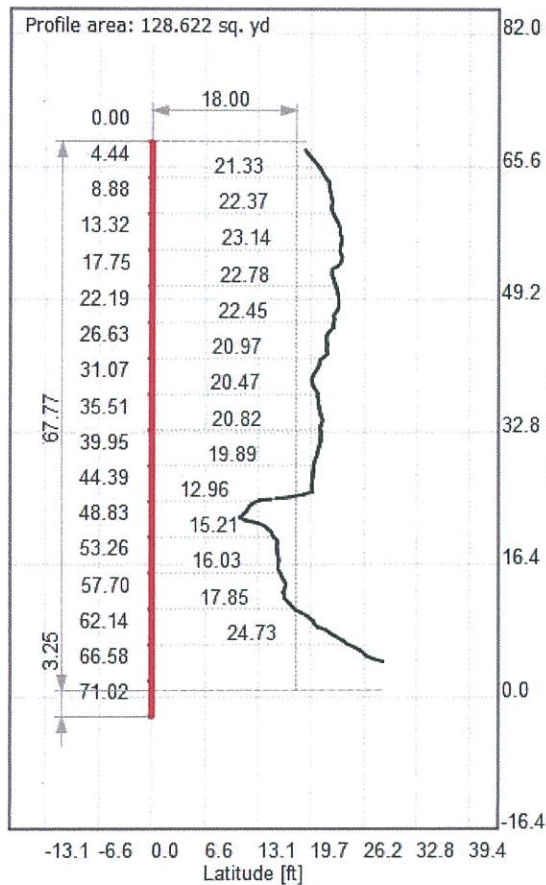
- **Decking refers to the use of isolated explosive columns within a blasthole.**
- **These explosives columns are separated using inert material (usually crushed stone) or air.**
- **Both the explosive columns and inert material/air columns can be referred to as decks**

BLAST DESIGN BASICS

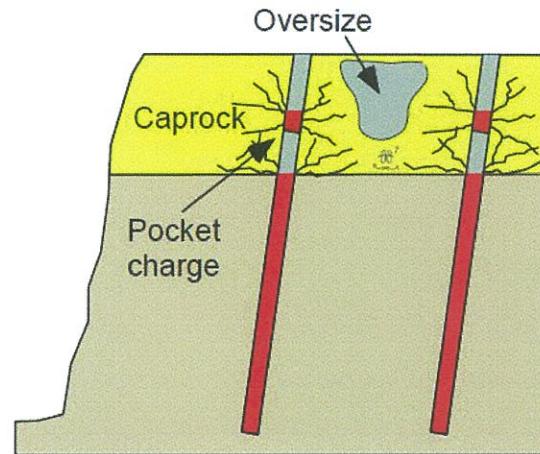


WHY DO WE DECK BLASTHOLES?

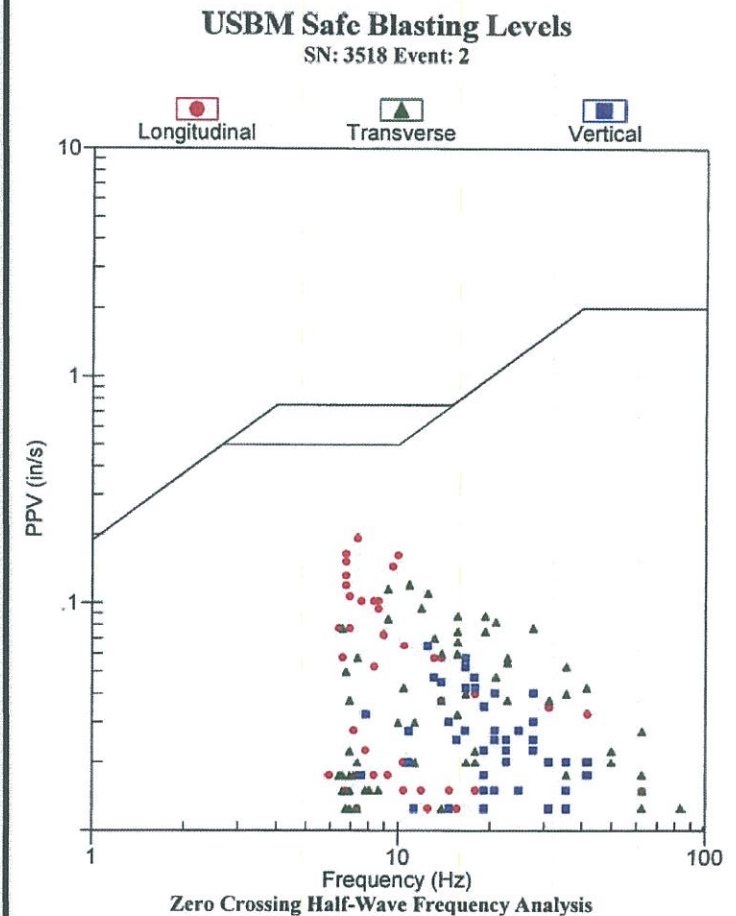
Burden & Geological Considerations



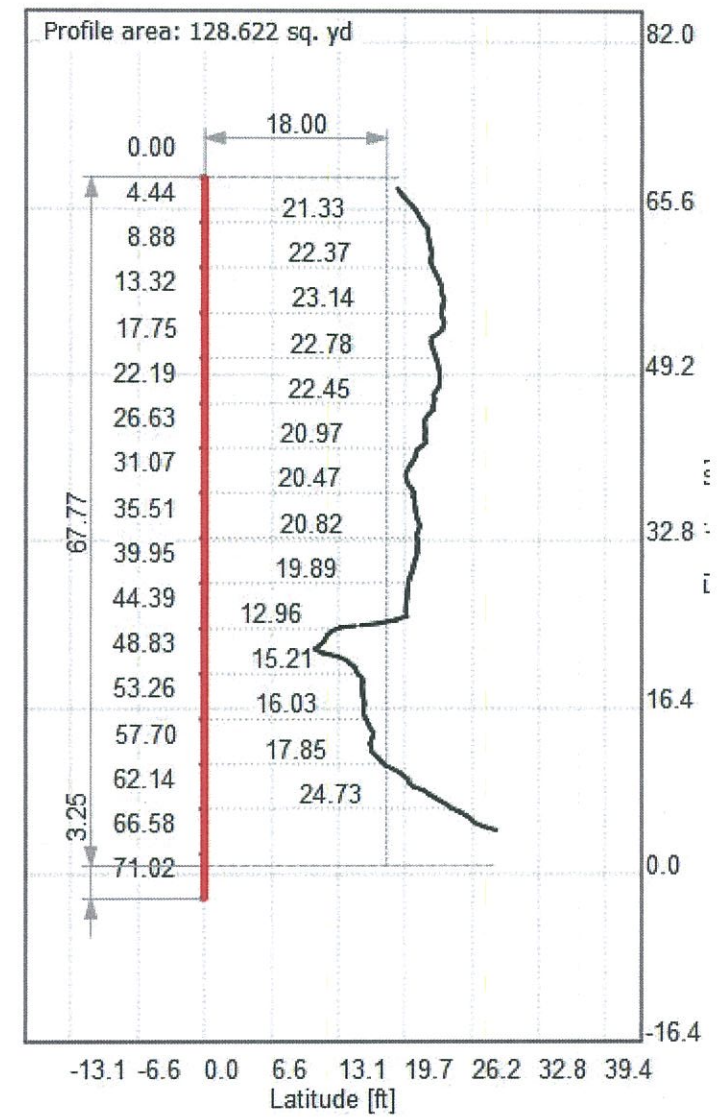
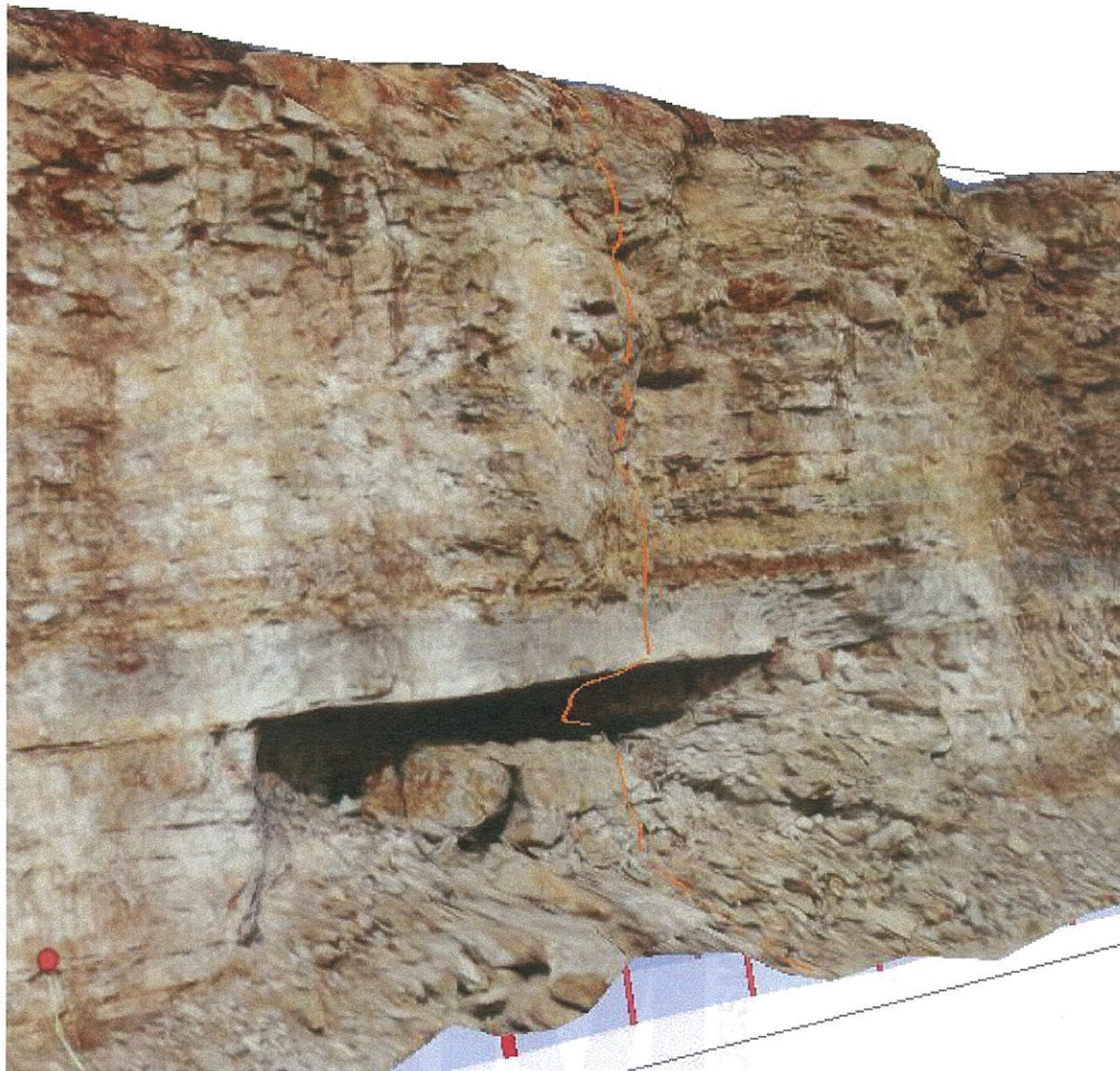
Controlled Distribution of Energy



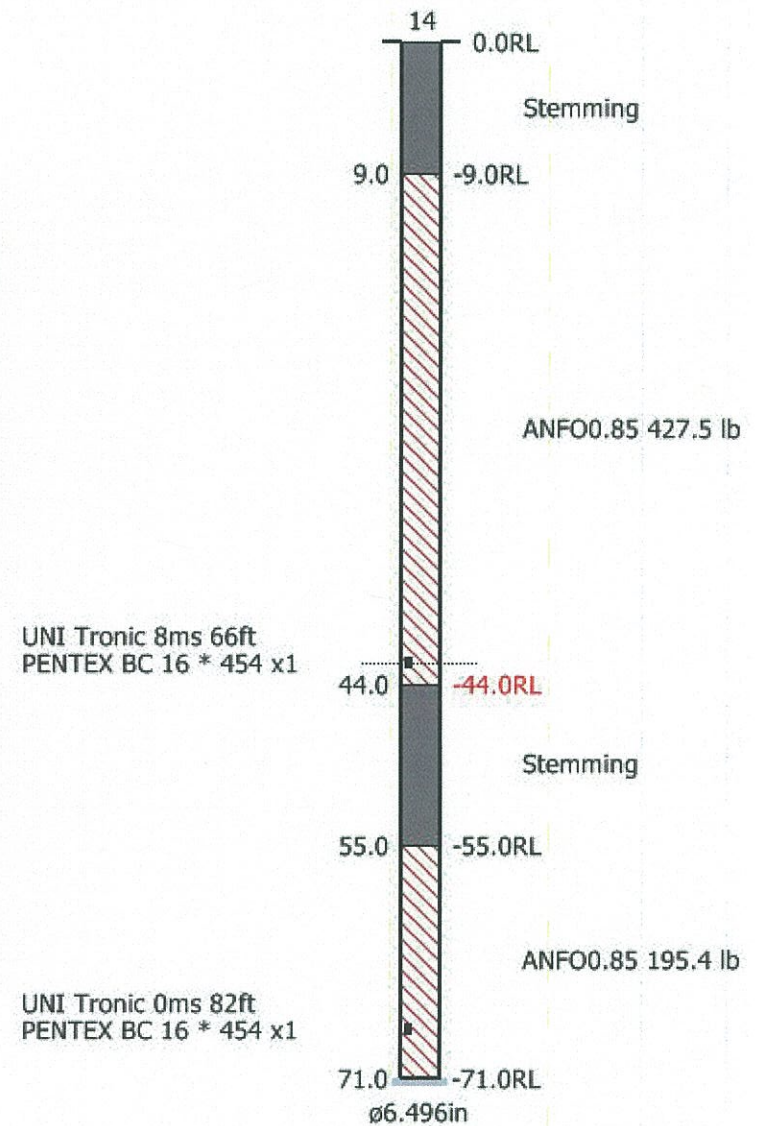
Seismic Considerations



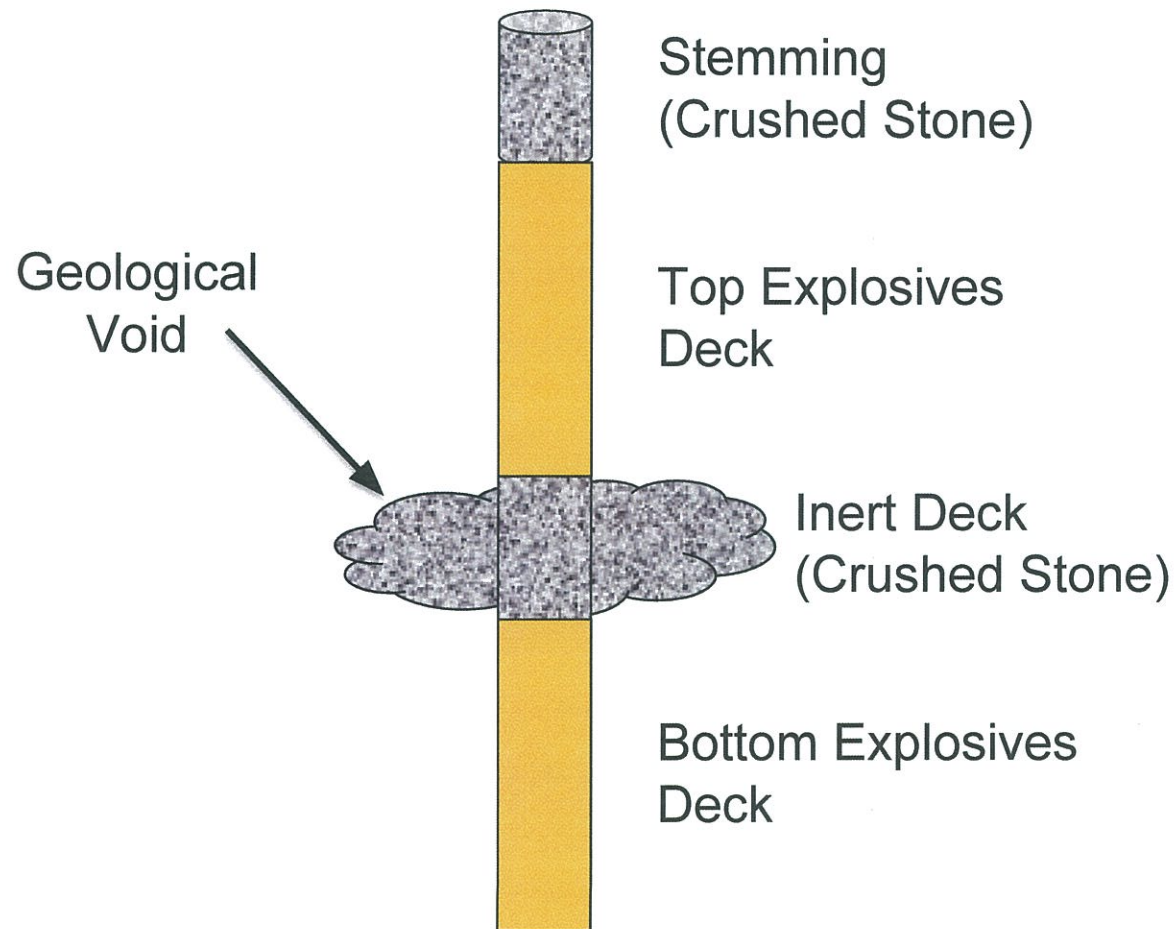
DECKING FOR BURDEN CONSIDERATIONS



INERT DECK IN AREA OF LIGHT BURDEN

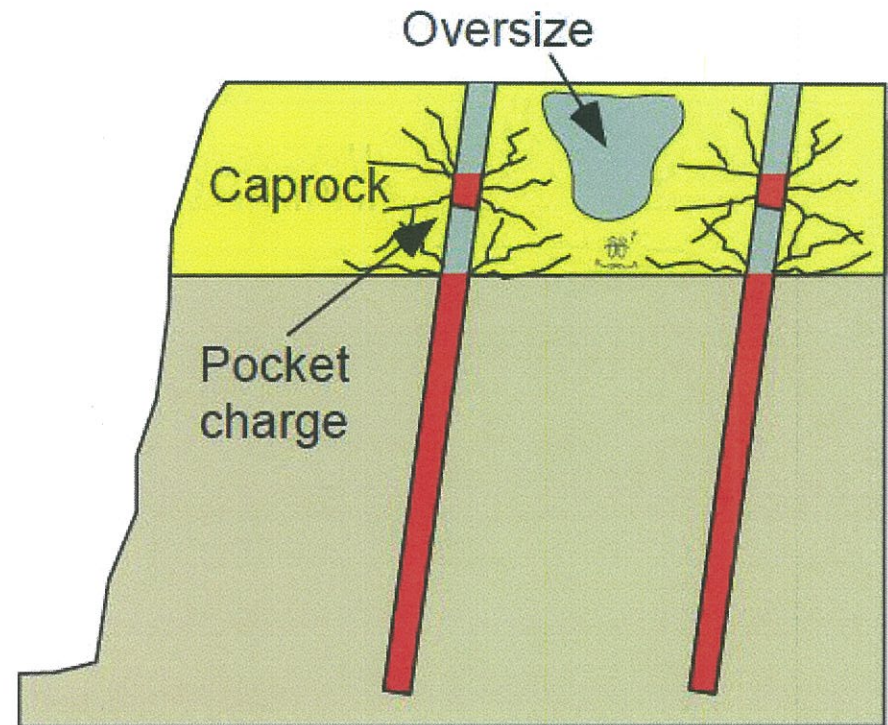


DECKING FOR GEOLOGICAL CONSIDERATIONS

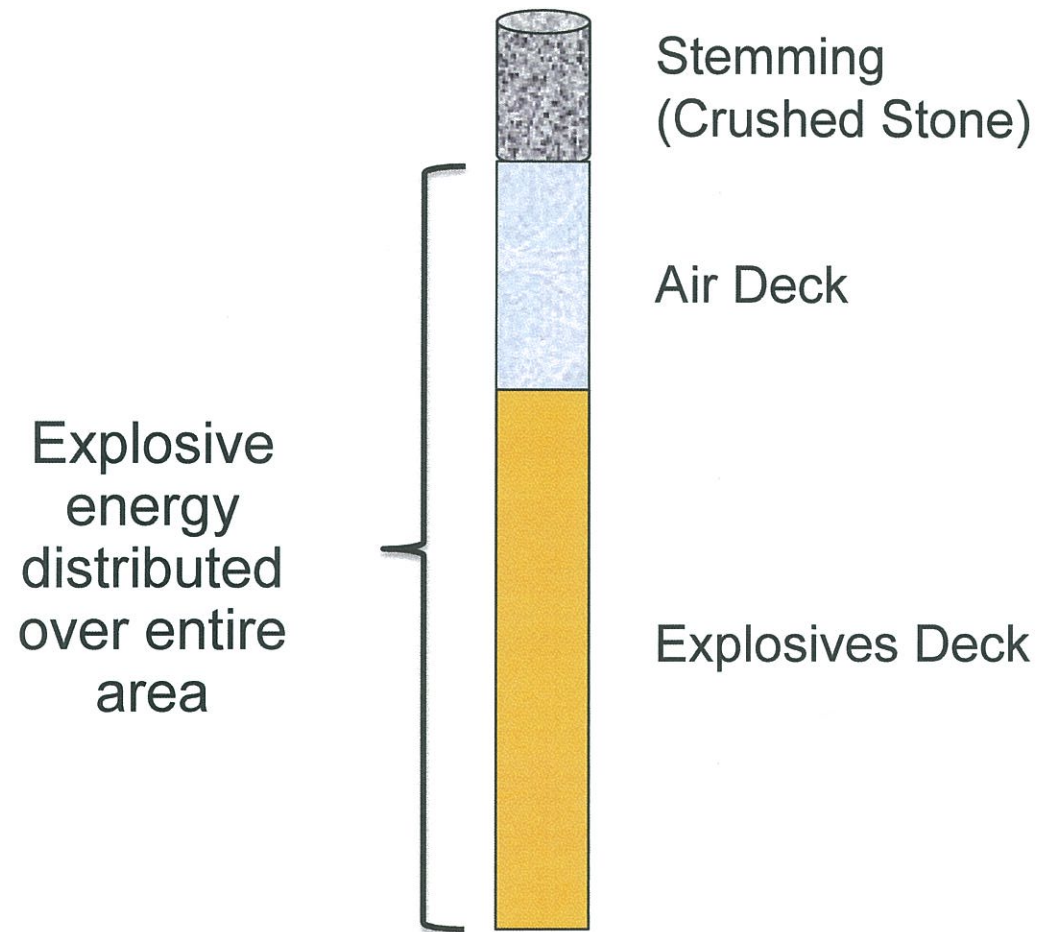


DECKING FOR CONTROLLED ENERGY DISTRIBUTION

- Use decks to direct explosive energy where it is most needed

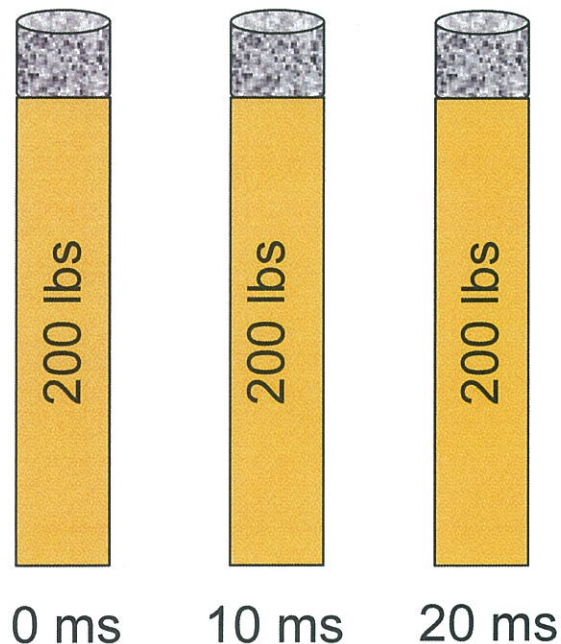


DECKING FOR CONTROLLED ENERGY DISTRIBUTION



DECKING FOR SEISMIC CONSIDERATIONS

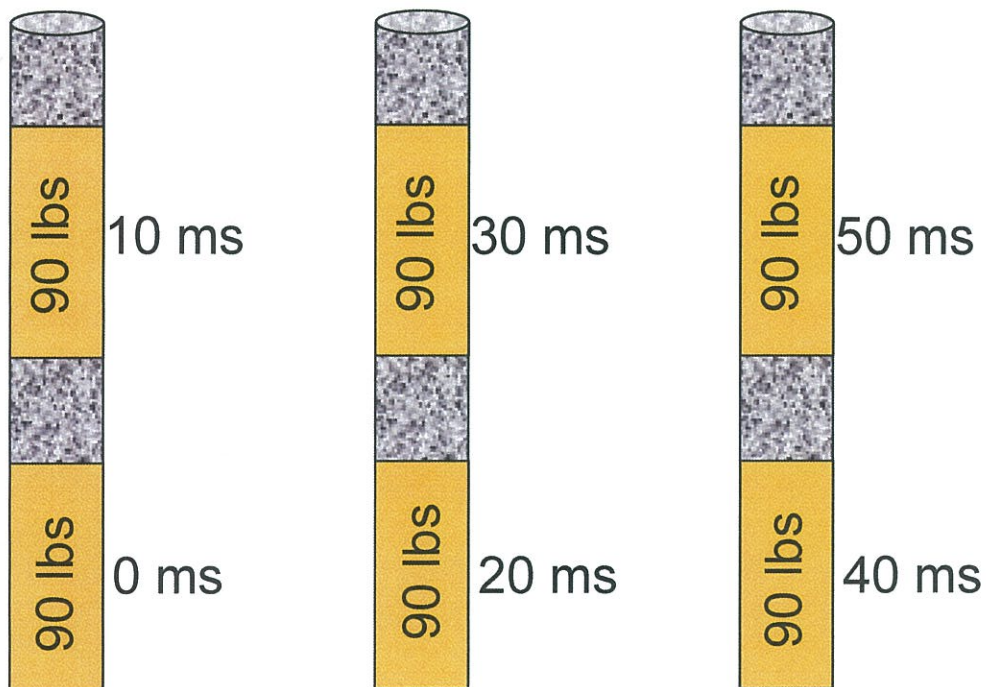
- Quantity of explosives detonating over a set (millisecond) time period is the factor that has most influence on magnitude of blast vibration.
- Referred to as “pounds per delay”



Example: each blasthole is loaded with 200 pounds of explosives in a single, non-decked explosives column, initiated at 10 millisecond intervals:

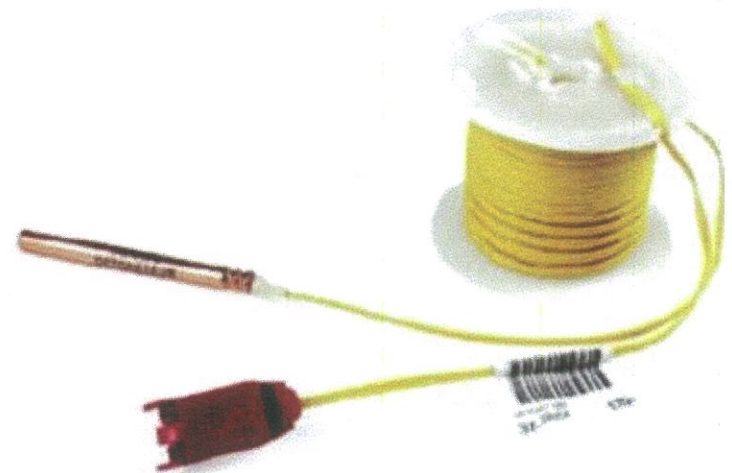
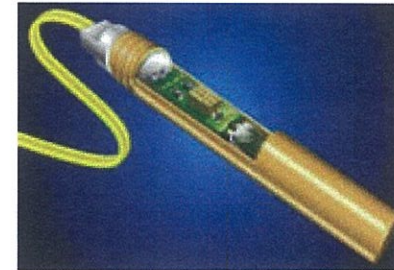
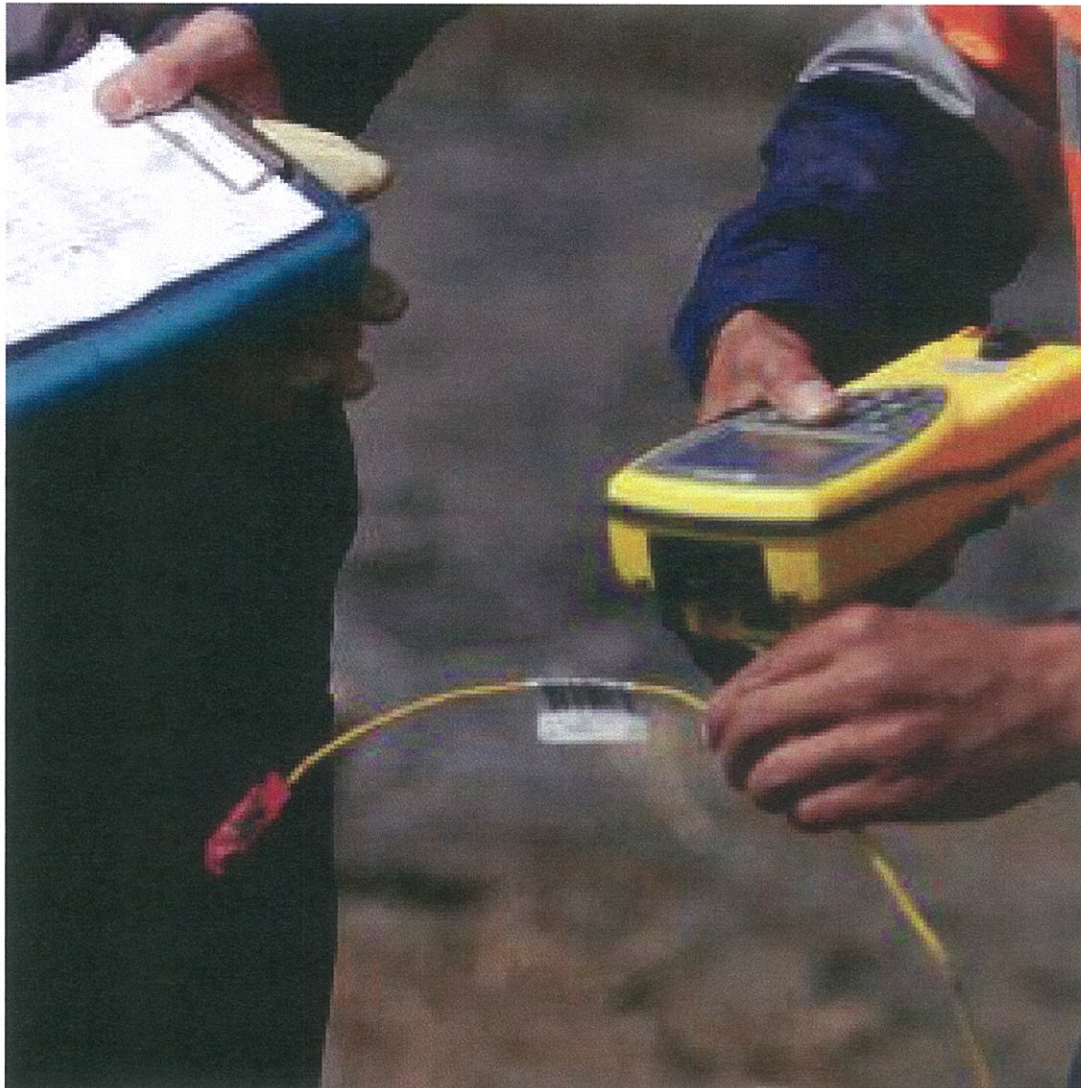
200 pounds per delay

DECKING FOR SEISMIC CONSIDERATIONS

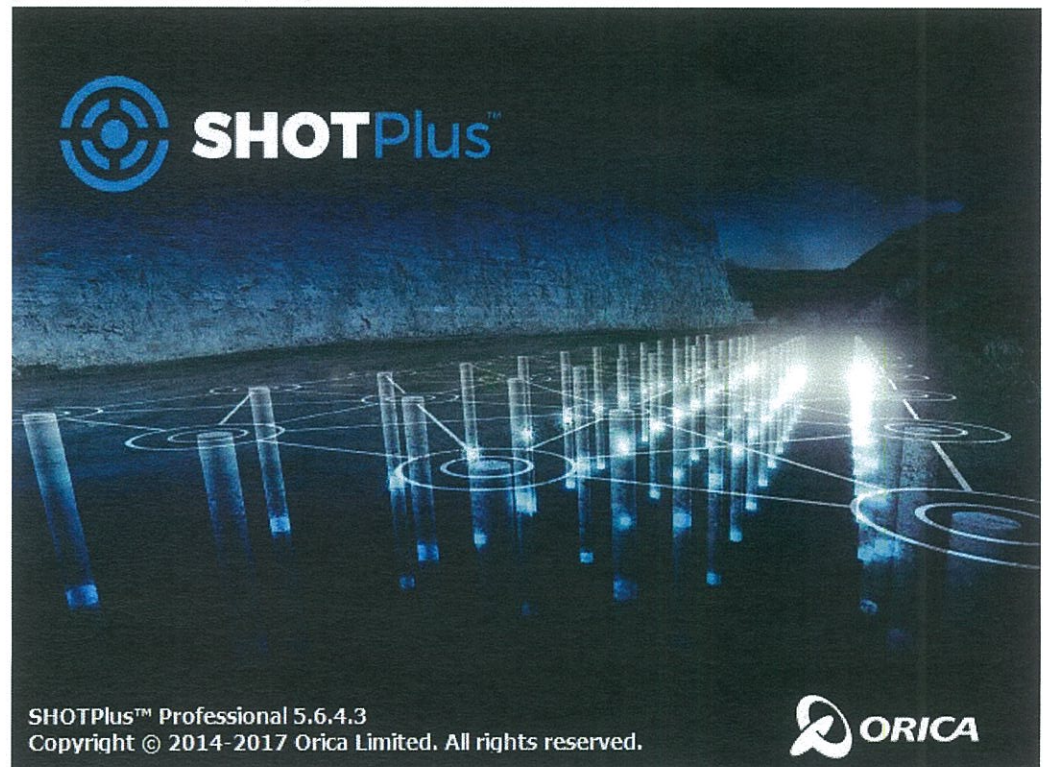
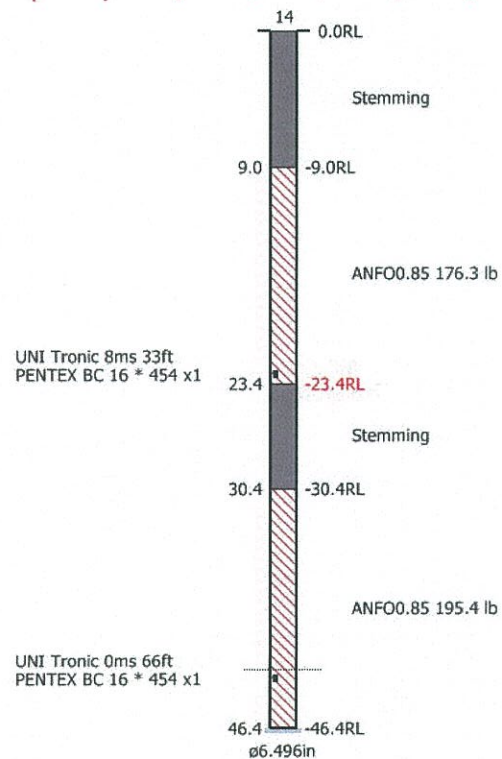
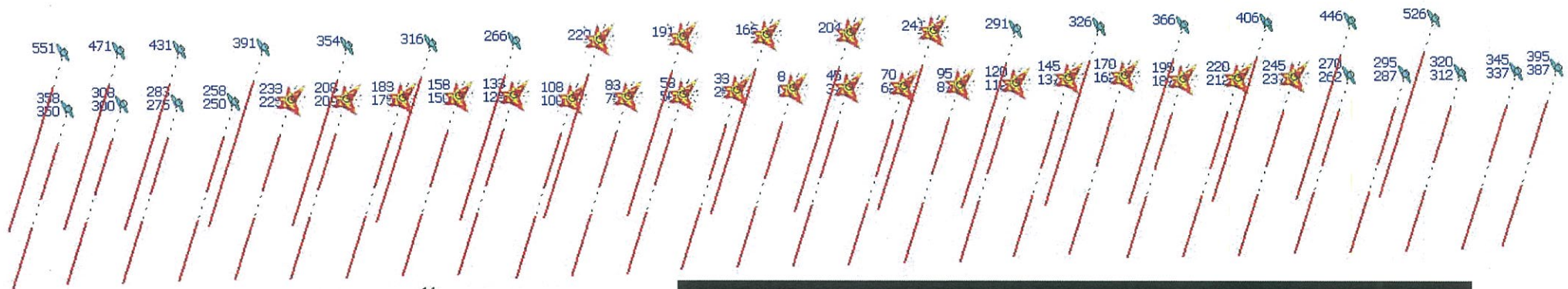


- Adding a single inert deck splits the explosives column into two explosive decks.
- When each explosive deck is initiated separately, the pounds per delay is drastically reduced.
- **New design = 90 pounds per delay**

ELECTRONIC DETONATOR INITIATION



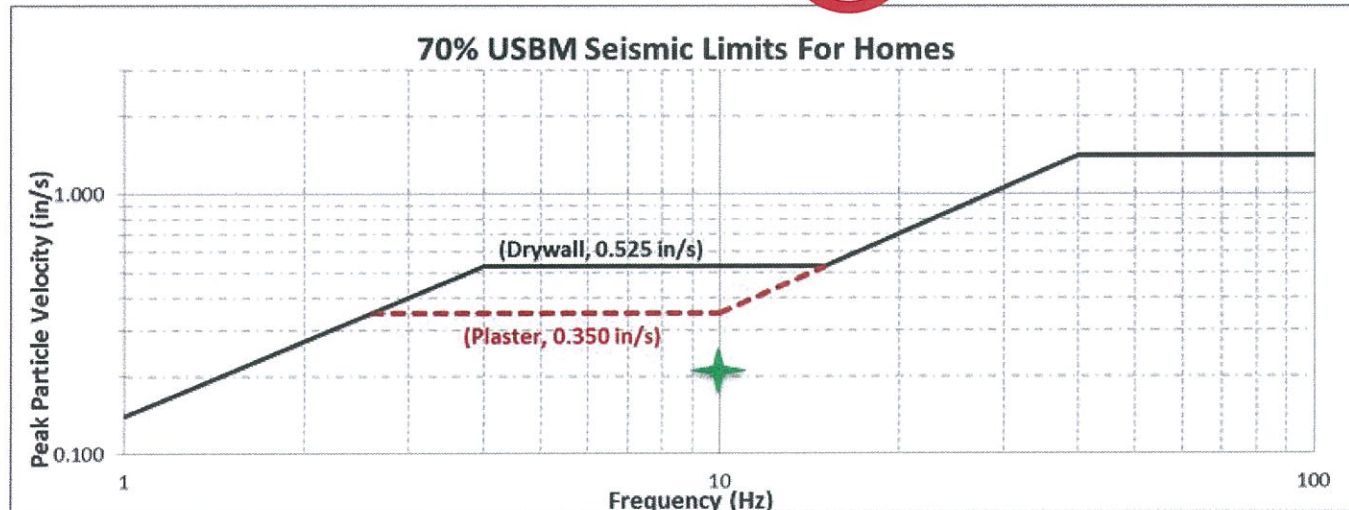
BLAST DESIGN SOFTWARE



DECKING FOR SEISMIC CONSIDERATIONS

PEAK PARTICLE VELOCITY CALCULATOR									EQUATIONS			
MICHELS RESIDENCE: N29 38 52, W98 18 19									Mean	84%	95%	99%
NORTH DEGREES	NORTH MINUTES	NORTH SECONDS	WEST DEGREES	WEST MINUTES	WEST SECONDS	MAX POUNDS PER DELAY	DISTANCE (FT)	SCALED DISTANCE	PPV (k 20.925) Slope - 1.176	PPV (k 28.903) Slope - 1.176	PPV (k 47.784) Slope - 1.176	PPV (k 67.565) Slope - 1.176
29	38.00	39.30	98	17.00	38.00	267	3,845	235	0.034	0.047	0.078	0.110

PEAK PARTICLE VELOCITY CALCULATOR									EQUATIONS			
WARDEN RESIDENCE: N29 38 23, W98 17 40									Mean	84%	95%	99%
NORTH DEGREES	NORTH MINUTES	NORTH SECONDS	WEST DEGREES	WEST MINUTES	WEST SECONDS	MAX POUNDS PER DELAY	DISTANCE (FT)	SCALED DISTANCE	PPV (k 20.925) Slope - 1.176	PPV (k 28.903) Slope - 1.176	PPV (k 47.784) Slope - 1.176	PPV (k 67.565) Slope - 1.176
29	38.00	39.300	98	17.000	38.000	267	1,656	101	0.092	0.127	0.209	0.296



70% USBM Z-Curve Calculator			
Frequency (Hz)			10.0
PPV (in/sec)			0.209
PPV Limit @	Drywall		0.525
Freq.	Plaster		0.350
Compliance?			Yes

DECKED BLAST (3 EXPLOSIVE DECKS)



October 2, 2017

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

4818 E. Ben White Blvd.
Suite 202
Austin, TX 78741

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of September 2017 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2017 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel used seismographs each day of blasting at various locations.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

If there are any additional questions, please contact the Quarry Commission, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held the 2nd Monday of each month at 7:00 p.m.

Respectfully submitted,

VIBRA-TECH, INC.

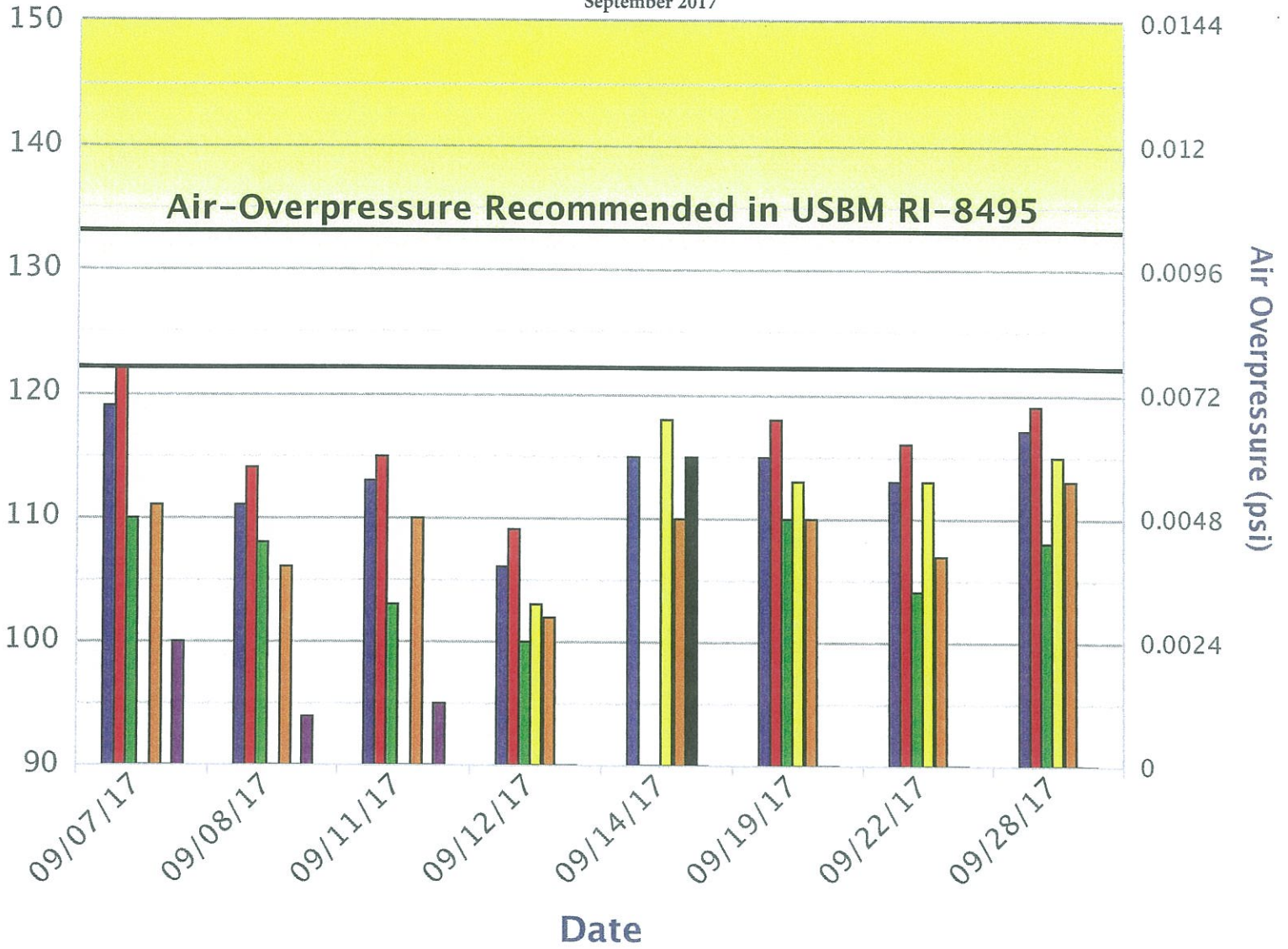


Geoffrey Rigsby
Southwest Regional Manager

cc: Hal Halamuda, Hanson – Servtex

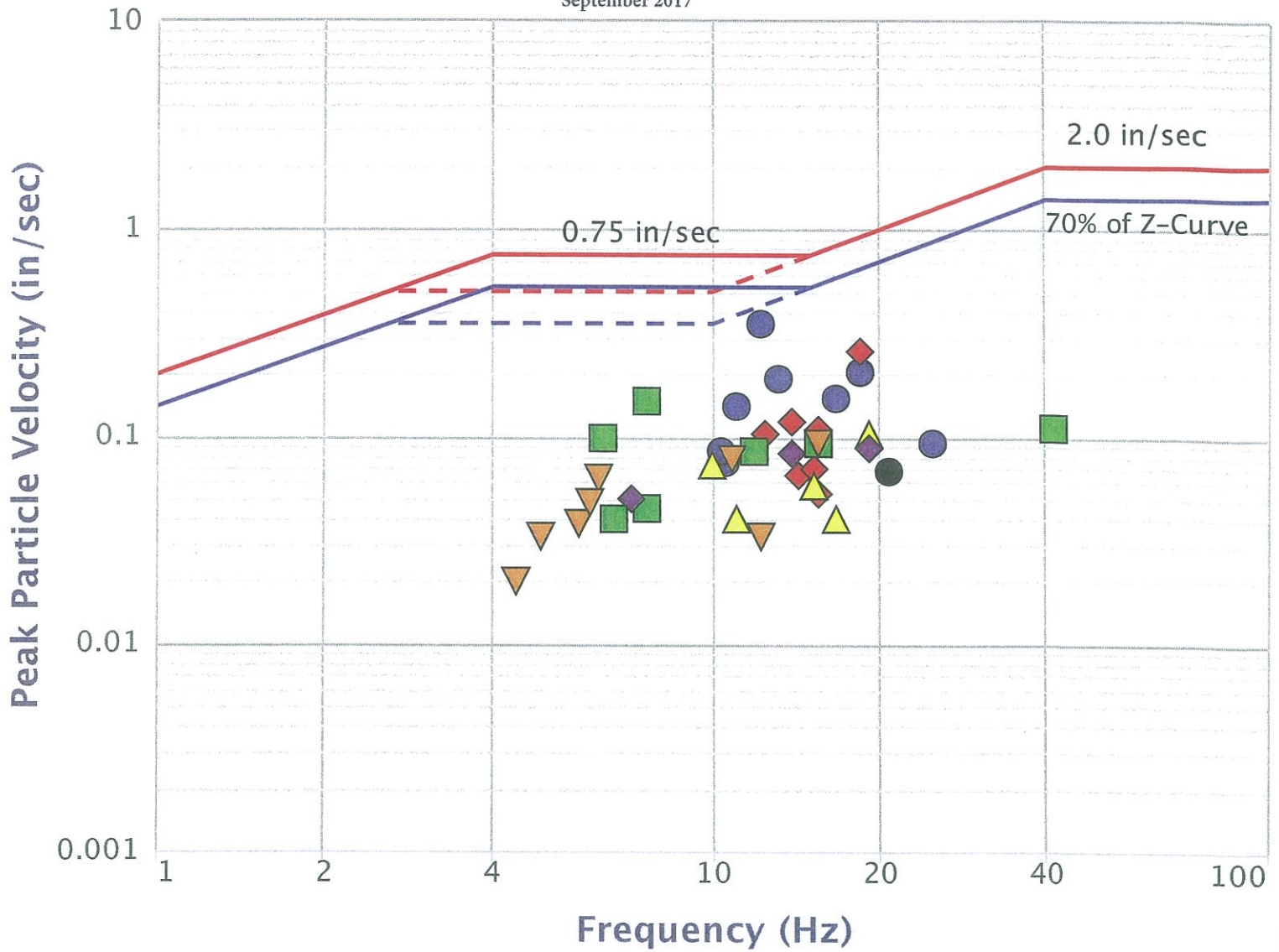


Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
September 2017



Warden Residence Warden Property Line Michels Residence Timmerman
City Property Line Holly Residence Cozean

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
September 2017



- Warden Residence ◆ Warden Property Line ■ Michels Residence ▲ Timmerman
- ▼ City Property Line ● Holly Residence ◆ Cozean

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2017**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/07/17	09-07-2017 1A	N 29° 38 33.8" W 098° 17' 34.2"	PT CLOUDY 95° NE 5	15:08	0.050	7.1	100.0	609	127.00	6,281	Cozean Residence
09/07/17	09-07-2017 1A	N 29° 38 33.8" W 098° 17' 34.2"	PT CLOUDY 95° NE 5	15:08	0.078	10.9	111.0	609	127.00	2,077	City Property Line
09/07/17	09-07-2017 1A	N 29° 38 33.8" W 098° 17' 34.2"	PT CLOUDY 95° NE 5	15:08	0.045	7.6	110.0	609	127.00	4,389	Michels - 9118 Tuscan Hills
09/07/17	09-07-2017 1A	N 29° 38 33.8" W 098° 17' 34.2"	PT CLOUDY 95° NE 5	15:08	0.350	12.2	119.0	609	127.00	1,208	Warden - 21375 Gunther Grove
09/07/17	09-07-2017 1A	N 29° 38 33.8" W 098° 17' 34.2"	PT CLOUDY 95° NE 5	15:08	0.258	18.5	122.0	609	127.00	987	Warden Property Line
09/08/17	09-08-2017 3C	N 29° 38 42.7" W 098° 17' 42.9"	CLEAR 95° SE 6	16:23	0.093	15.6	106.0	642	430.00	2,255	City Property Line
09/08/17	09-08-2017 3C	N 29° 38 42.7" W 098° 17' 42.9"	CLEAR 95° SE 6	16:23	0.088	19.2	94.0	642	430.00	5,782	Cozean Residence
09/08/17	09-08-2017 3C	N 29° 38 42.7" W 098° 17' 42.9"	CLEAR 95° SE 6	16:23	0.098	6.3	108.0	642	430.00	3,352	Michels - 9118 Tuscan Hills
09/08/17	09-08-2017 3C	N 29° 38 42.7" W 098° 17' 42.9"	CLEAR 95° SE 6	16:23	0.205	18.5	111.0	642	430.00	2,013	Warden - 21375 Gunther Grove
09/08/17	09-08-2017 3C	N 29° 38 42.7" W 098° 17' 42.9"	CLEAR 95° SE 6	16:23	0.118	13.9	114.0	642	430.00	1,826	Warden Property Line
09/11/17	09-11-2017 3H	N 29° 39 3.7" W 098° 17' 43.5"	CLEAR 90° S 6	12:23	0.033	12.2	110.0	784	275.00	4,263	City Property Line
09/11/17	09-11-2017 3H	N 29° 39 3.7" W 098° 17' 43.5"	CLEAR 90° S 6	12:23	0.083	13.9	95.0	784	275.00	6,786	Cozean Residence
09/11/17	09-11-2017 3H	N 29° 39 3.7" W 098° 17' 43.5"	CLEAR 90° S 6	12:23	0.093	15.6	103.0	784	275.00	3,378	Michels - 9118 Tuscan Hills
09/11/17	09-11-2017 3H	N 29° 39 3.7" W 098° 17' 43.5"	CLEAR 90° S 6	12:23	0.075	10.6	113.0	784	275.00	4,136	Warden - 21375 Gunther Grove
09/11/17	09-11-2017 3H	N 29° 39 3.7" W 098° 17' 43.5"	CLEAR 90° S 6	12:23	0.053	15.6	115.0	784	275.00	3,942	Warden Property Line

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2017

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/12/17	09-12-2017 Lower 6 West Wall B	N 29° 38 50.2" W 098° 17' 10.5"	CLEAR 90° NE 4	12:08	0.038	5.7	102.0	832	525.00	4,740	City Property Line
09/12/17	09-12-2017 Lower 6 West Wall B	N 29° 38 50.2" W 098° 17' 10.5"	CLEAR 90° NE 4	12:08	0.040	6.6	100.0	832	525.00	6,073	Michels - 9118 Tuscan Hills
09/12/17	09-12-2017 Lower 6 West Wall B	N 29° 38 50.2" W 098° 17' 10.5"	CLEAR 90° NE 4	12:08	0.073	10.0	103.0	832	525.00	3,789	Timmerman
09/12/17	09-12-2017 Lower 6 West Wall B	N 29° 38 50.2" W 098° 17' 10.5"	CLEAR 90° NE 4	12:08	0.085	10.4	106.0	832	525.00	3,788	Warden - 21375 Gunther Grove
09/12/17	09-12-2017 Lower 6 West Wall B	N 29° 38 50.2" W 098° 17' 10.5"	CLEAR 90° NE 4	12:08	0.065	14.3	109.0	832	525.00	3,581	Warden Property Line
09/14/17	09-14-2017 South Wall E	N 29° 38 9.7" W 098° 16' 54.8"	PT CLOUDY 95° S 6	12:45	0.020	4.4	110.0	695	1012.00	5,374	City Property Line
09/14/17	09-14-2017 South Wall E	N 29° 38 9.7" W 098° 16' 54.8"	PT CLOUDY 95° S 6	12:45	0.068	20.8	115.0	695	1012.00	2,800	Holly - 9916 Trophy Oaks
09/14/17	09-14-2017 South Wall E	N 29° 38 9.7" W 098° 16' 54.8"	PT CLOUDY 95° S 6	12:45	NT	NT	NT	695	1012.00	8,598	Michels - 9118 Tuscan Hills
09/14/17	09-14-2017 South Wall E	N 29° 38 9.7" W 098° 16' 54.8"	PT CLOUDY 95° S 6	12:45	0.103	19.2	118.0	695	1012.00	2,947	Timmerman
09/14/17	09-14-2017 South Wall E	N 29° 38 9.7" W 098° 16' 54.8"	PT CLOUDY 95° S 6	12:45	0.093	25.0	115.0	695	1012.00	4,203	Warden - 21375 Gunther Grove
09/19/17	09-19-2017 3D	N 29° 38 46.5" W 098° 17' 43.2"	PT CLOUDY 95° SW 6	15:49	0.063	6.2	110.0	733	744.00	2,598	City Property Line
09/19/17	09-19-2017 3D	N 29° 38 46.5" W 098° 17' 43.2"	PT CLOUDY 95° SW 6	15:49	0.085	11.9	110.0	733	744.00	3,238	Michels - 9118 Tuscan Hills
09/19/17	09-19-2017 3D	N 29° 38 46.5" W 098° 17' 43.2"	PT CLOUDY 95° SW 6	15:49	0.040	11.1	113.0	733	744.00	3,400	Timmerman
09/19/17	09-19-2017 3D	N 29° 38 46.5" W 098° 17' 43.2"	PT CLOUDY 95° SW 6	15:49	0.190	13.2	115.0	733	744.00	2,398	Warden - 21375 Gunther Grove
09/19/17	09-19-2017 3D	N 29° 38 46.5" W 098° 17' 43.2"	PT CLOUDY 95° SW 6	15:49	0.108	15.6	118.0	733	744.00	2,210	Warden Property Line

T = No Trigger, <0.020 ips.

T = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2017**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/22/17	09-22-2017 3G	N 29° 38 59.7" W 098° 17' 42.8"	PT CLOUDY 93° SE 7	14:03	0.033	4.9	107.0	720	338.00	3,883	City Property Line
09/22/17	09-22-2017 3G	N 29° 38 59.7" W 098° 17' 42.8"	PT CLOUDY 93° SE 7	14:03	0.148	7.6	104.0	720	338.00	3,318	Michels - 9118 Tuscan Hills
09/22/17	09-22-2017 3G	N 29° 38 59.7" W 098° 17' 42.8"	PT CLOUDY 93° SE 7	14:03	0.040	16.7	113.0	720	338.00	4,643	Timmerman
09/22/17	09-22-2017 3G	N 29° 38 59.7" W 098° 17' 42.8"	PT CLOUDY 93° SE 7	14:03	0.140	11.1	113.0	720	338.00	3,727	Warden - 21375 Gunther Grove
09/22/17	09-22-2017 3G	N 29° 38 59.7" W 098° 17' 42.8"	PT CLOUDY 93° SE 7	14:03	0.070	15.2	116.0	720	338.00	3,532	Warden Property Line
09/28/17	09-28-2017 3E	N 29° 38 52.4" W 098° 17' 43.8"	RAIN 89° NE 7	12:16	0.048	6.0	113.0	618	729.00	3,147	City Property Line
09/28/17	09-28-2017 3E	N 29° 38 52.4" W 098° 17' 43.8"	RAIN 89° NE 7	12:16	0.110	41.7	108.0	618	729.00	3,137	Michels - 9118 Tuscan Hills
09/28/17	09-28-2017 3E	N 29° 38 52.4" W 098° 17' 43.8"	RAIN 89° NE 7	12:16	0.058	15.2	115.0	618	729.00	3,972	Timmerman
09/28/17	09-28-2017 3E	N 29° 38 52.4" W 098° 17' 43.8"	RAIN 89° NE 7	12:16	0.153	16.7	117.0	618	729.00	2,998	Warden - 21375 Gunther Grove
09/28/17	09-28-2017 3E	N 29° 38 52.4" W 098° 17' 43.8"	RAIN 89° NE 7	12:16	0.103	12.5	119.0	618	729.00	2,809	Warden Property Line



October 31, 2017

VibraTechinc.com

4818 E. Ben White Blvd.
Suite 202
Austin, TX 78741

Phone 512.442.6464
Fax 512.442.6552

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of October 2017 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2017 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel used seismographs each day of blasting at various locations.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and all but one satisfy the levels set forth in Garden Ridge City Ordinance 34. There was a 125dB on October 10th at Warden Property Line.

If there are any additional questions, please contact the Quarry Commission, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held the 2nd Monday of each month at 7:00 p.m.

Respectfully submitted,

VIBRA-TECH, INC.



Geoffrey Rigsby
Southwest Regional Manager

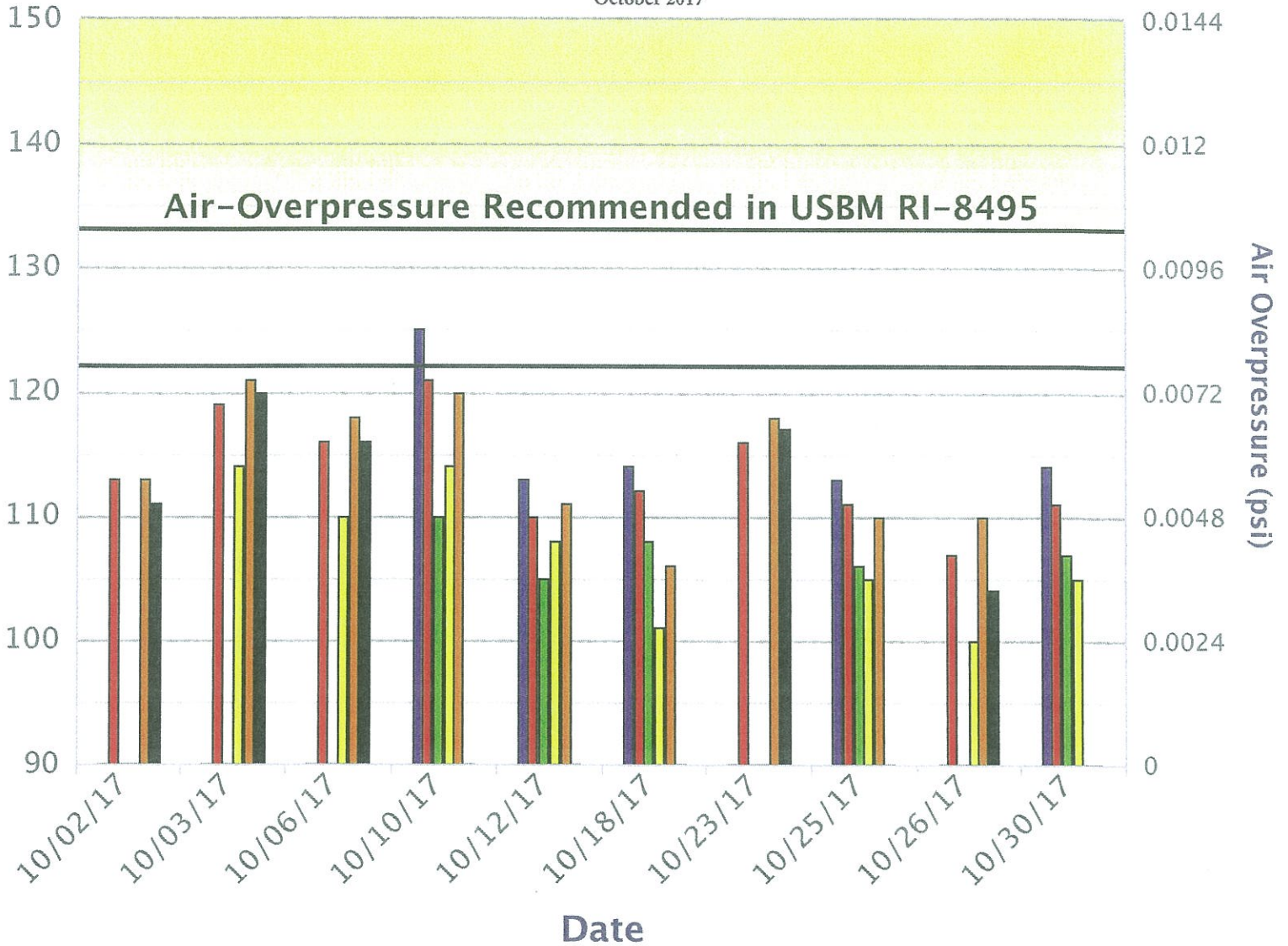
cc: Hal Halamuda, Hanson – Servtex



Google earth

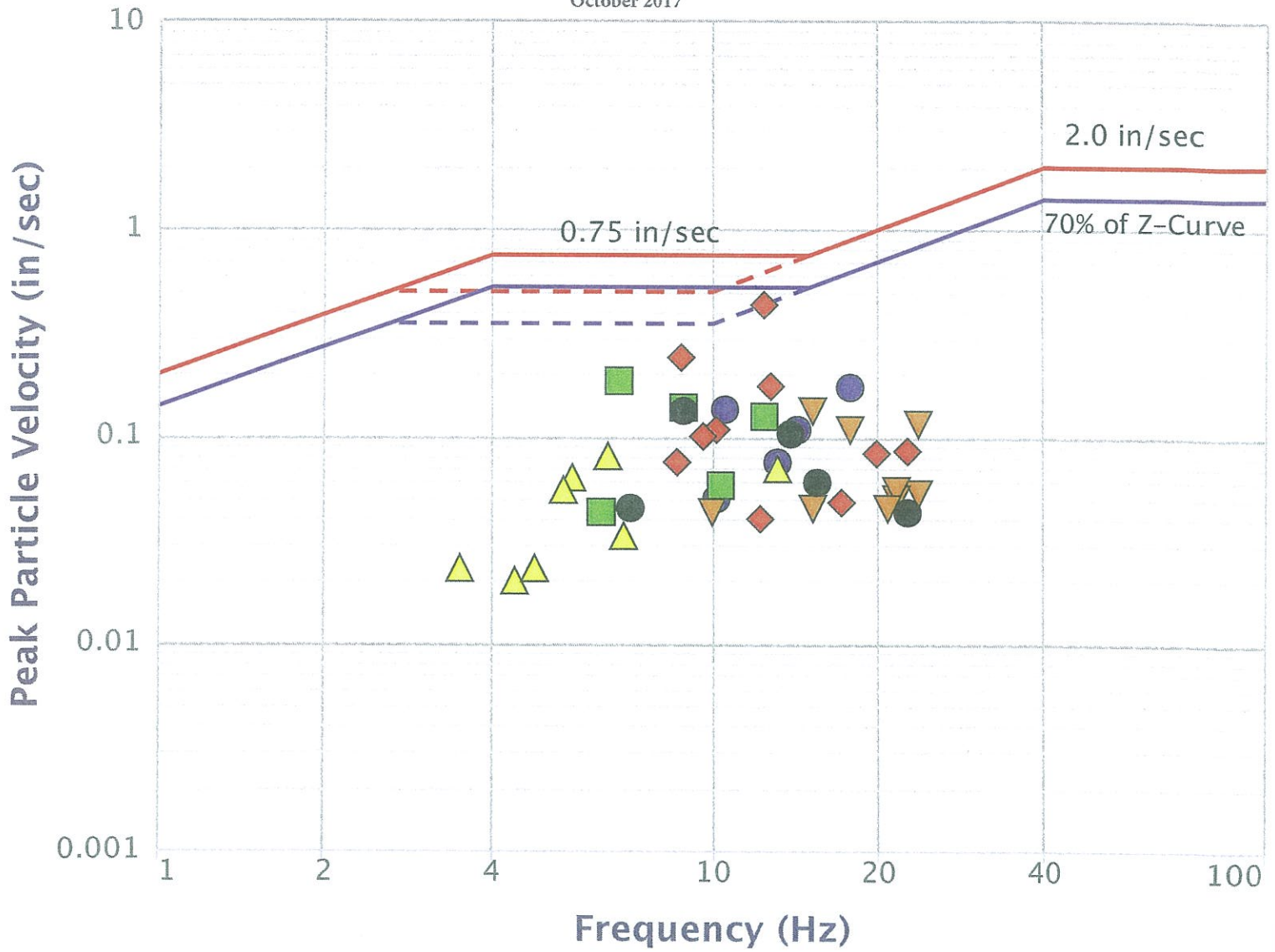
29°38'32.42" N 98°17'24.33" W elev 784 ft eye alt 12095 ft

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 October 2017



Warden Property Line Warden Residence Michels Residence City Property Line
 Timmerman Holly Residence

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
October 2017



- Warden Property Line
- ◆ Warden Residence
- Michels Residence
- ▲ City Property Line
- ▼ Timmerman
- Holly Residence

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2017**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
10/02/17	10-02-2017 South Wall A	N 29° 38 10.6" W 098° 16' 38.4"	PT. CLOUDY 90° SE 7	12:24	NT	NT	NT	536	835.00	6,767	City Property Line
10/02/17	10-02-2017 South Wall A	N 29° 38 10.6" W 098° 16' 38.4"	PT. CLOUDY 90° SE 7	12:24	0.045	7.1	111.0	536	835.00	4,216	Holly - 9916 Trophy Oaks
10/02/17	10-02-2017 South Wall A	N 29° 38 10.6" W 098° 16' 38.4"	PT. CLOUDY 90° SE 7	12:24	NT	NT	NT	536	835.00	9,837	Michels - 9118 Tuscan Hills
10/02/17	10-02-2017 South Wall A	N 29° 38 10.6" W 098° 16' 38.4"	PT. CLOUDY 90° SE 7	12:24	0.053	23.8	113.0	536	835.00	4,357	Timmerman
10/02/17	10-02-2017 South Wall A	N 29° 38 10.6" W 098° 16' 38.4"	PT. CLOUDY 90° SE 7	12:24	0.040	12.2	113.0	536	835.00	5,569	Warden - 21375 Gunther Grove
10/03/17	10-03-2017 South Wall F	N 29° 38 9.3" W 098° 16' 55.2"	CLOUDY 89° SE 6	11:23	0.023	3.5	114.0	762	902.00	5,350	City Property Line
10/03/17	10-03-2017 South Wall F	N 29° 38 9.3" W 098° 16' 55.2"	CLOUDY 89° SE 6	11:23	0.103	13.9	120.0	762	902.00	2,774	Holly - 9916 Trophy Oaks
10/03/17	10-03-2017 South Wall F	N 29° 38 9.3" W 098° 16' 55.2"	CLOUDY 89° SE 6	11:23	NT	NT	NT	762	902.00	8,588	Michels - 9118 Tuscan Hills
10/03/17	10-03-2017 South Wall F	N 29° 38 9.3" W 098° 16' 55.2"	CLOUDY 89° SE 6	11:23	0.108	17.9	121.0	762	902.00	2,921	Timmerman
10/03/17	10-03-2017 South Wall F	N 29° 38 9.3" W 098° 16' 55.2"	CLOUDY 89° SE 6	11:23	0.083	20.0	119.0	762	902.00	4,183	Warden - 21375 Gunther Grove
10/06/17	10-06-2017 South Wall G	N 29° 38 5.7" W 098° 17' 3.2"	PT. CLOUDY 90° SE 5	14:24	0.020	4.4	110.0	888	383.00	4,790	City Property Line
10/06/17	10-06-2017 South Wall G	N 29° 38 5.7" W 098° 17' 3.2"	PT. CLOUDY 90° SE 5	14:24	0.133	8.9	116.0	888	383.00	2,218	Holly - 9916 Trophy Oaks
10/06/17	10-06-2017 South Wall G	N 29° 38 5.7" W 098° 17' 3.2"	PT. CLOUDY 90° SE 5	14:24	NT	NT	NT	888	383.00	8,190	Michels - 9118 Tuscan Hills
10/06/17	10-06-2017 South Wall G	N 29° 38 5.7" W 098° 17' 3.2"	PT. CLOUDY 90° SE 5	14:24	0.115	23.8	118.0	888	383.00	2,375	Timmerman
10/06/17	10-06-2017 South Wall G	N 29° 38 5.7" W 098° 17' 3.2"	PT. CLOUDY 90° SE 5	14:24	0.085	22.7	116.0	888	383.00	3,685	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2017**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
10/10/17	10-10-2017 3F	N 29° 38 56.1" W 098° 17' 43.9"	CLOUDY 75° N 12	14:44	0.063	5.6	114.0	746	708.00	3,506	City Property Line
10/10/17	10-10-2017 3F	N 29° 38 56.1" W 098° 17' 43.9"	CLOUDY 75° N 12	14:44	0.185	6.8	110.0	746	708.00	3,156	Michels - 9118 Tuscan Hills
10/10/17	10-10-2017 3F	N 29° 38 56.1" W 098° 17' 43.9"	CLOUDY 75° N 12	14:44	0.045	15.2	120.0	746	708.00	4,327	Timmerman
10/10/17	10-10-2017 3F	N 29° 38 56.1" W 098° 17' 43.9"	CLOUDY 75° N 12	14:44	0.108	10.2	121.0	746	708.00	3,372	Warden - 21375 Gunther Grove
10/10/17	10-10-2017 3F	N 29° 38 56.1" W 098° 17' 43.9"	CLOUDY 75° N 12	14:44	0.075	13.2	125.0	746	708.00	3,181	Warden Property Line
10/12/17	10-12-2017 3H	N 29° 39 3.6" W 098° 17' 44.0"	PT. CLOUDY 90° SE 5	15:00	0.033	6.9	108.0	835	269.00	4,244	City Property Line
10/12/17	10-12-2017 3H	N 29° 39 3.6" W 098° 17' 44.0"	PT. CLOUDY 90° SE 5	15:00	0.138	8.9	105.0	835	269.00	3,334	Michels - 9118 Tuscan Hills
10/12/17	10-12-2017 3H	N 29° 39 3.6" W 098° 17' 44.0"	PT. CLOUDY 90° SE 5	15:00	0.050	21.7	111.0	835	269.00	5,052	Timmerman
10/12/17	10-12-2017 3H	N 29° 39 3.6" W 098° 17' 44.0"	PT. CLOUDY 90° SE 5	15:00	0.100	9.6	110.0	835	269.00	4,129	Warden - 21375 Gunther Grove
10/12/17	10-12-2017 3H	N 29° 39 3.6" W 098° 17' 44.0"	PT. CLOUDY 90° SE 5	15:00	0.050	10.2	113.0	835	269.00	3,936	Warden Property Line
10/18/17	10-18-2017 1A	N 29° 38 33.7" W 098° 17' 34.4"	CLEAR 85° SE 6	16:31	0.055	5.4	101.0	533	111.00	2,091	City Property Line
10/18/17	10-18-2017 1A	N 29° 38 33.7" W 098° 17' 34.4"	CLEAR 85° SE 6	16:31	0.043	6.3	108.0	533	111.00	4,299	Michels - 9118 Tuscan Hills
10/18/17	10-18-2017 1A	N 29° 38 33.7" W 098° 17' 34.4"	CLEAR 85° SE 6	16:31	0.133	15.2	106.0	533	111.00	2,025	Timmerman
10/18/17	10-18-2017 1A	N 29° 38 33.7" W 098° 17' 34.4"	CLEAR 85° SE 6	16:31	0.433	12.5	112.0	533	111.00	1,280	Warden - 21375 Gunther Grove
10/18/17	10-18-2017 1A	N 29° 38 33.7" W 098° 17' 34.4"	CLEAR 85° SE 6	16:31	0.173	17.9	114.0	533	111.00	1,060	Warden Property Line

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2017

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
10/23/17	10-23-2017 South Wall E	N 29° 38 9.2" W 098° 16' 53.7"	CLEAR 84° S 4	12:37	NT	NT	NT	646	1043.00	5,480	City Property Line
10/23/17	10-23-2017 South Wall E	N 29° 38 9.2" W 098° 16' 53.7"	CLEAR 84° S 4	12:37	0.060	15.6	117.0	646	1043.00	2,937	Holly - 9916 Trophy Oaks
10/23/17	10-23-2017 South Wall E	N 29° 38 9.2" W 098° 16' 53.7"	CLEAR 84° S 4	12:37	NT	NT	NT	646	1043.00	8,721	Michels - 9118 Tuscan Hills
10/23/17	10-23-2017 South Wall E	N 29° 38 9.2" W 098° 16' 53.7"	CLEAR 84° S 4	12:37	0.055	21.7	118.0	646	1043.00	3,052	Timmerman
10/23/17	10-23-2017 South Wall E	N 29° 38 9.2" W 098° 16' 53.7"	CLEAR 84° S 4	12:37	0.075	8.6	116.0	646	1043.00	4,311	Warden - 21375 Gunther Grove
10/25/17	10-25-2017 3C	N 29° 38 43.3" W 098° 17' 43.3"	CLEAR 80° SW 4	16:23	0.080	6.5	105.0	329	445.00	2,296	City Property Line
10/25/17	10-25-2017 3C	N 29° 38 43.3" W 098° 17' 43.3"	CLEAR 80° SW 4	16:23	0.058	10.4	106.0	329	445.00	3,308	Michels - 9118 Tuscan Hills
10/25/17	10-25-2017 3C	N 29° 38 43.3" W 098° 17' 43.3"	CLEAR 80° SW 4	16:23	0.043	10.0	110.0	329	445.00	3,110	Timmerman
10/25/17	10-25-2017 3C	N 29° 38 43.3" W 098° 17' 43.3"	CLEAR 80° SW 4	16:23	0.240	8.8	111.0	329	445.00	2,078	Warden - 21375 Gunther Grove
10/25/17	10-25-2017 3C	N 29° 38 43.3" W 098° 17' 43.3"	CLEAR 80° SW 4	16:23	0.135	10.6	113.0	329	445.00	1,885	Warden Property Line
10/26/17	10-26-2017 South Wall A	N 29° 38 11.3" W 098° 16' 37.2"	CLEAR 80° SW 9	12:27	0.023	4.8	100.0	535	771.00	6,359	City Property Line
10/26/17	10-26-2017 South Wall A	N 29° 38 11.3" W 098° 16' 37.2"	CLEAR 80° SW 9	12:27	0.043	22.7	104.0	535	771.00	4,347	Holly - 9916 Trophy Oaks
10/26/17	10-26-2017 South Wall A	N 29° 38 11.3" W 098° 16' 37.2"	CLEAR 80° SW 9	12:27	NT	NT	NT	535	771.00	9,914	Michels - 9118 Tuscan Hills
10/26/17	10-26-2017 South Wall A	N 29° 38 11.3" W 098° 16' 37.2"	CLEAR 80° SW 9	12:27	0.045	20.8	110.0	535	771.00	4,454	Timmerman
10/26/17	10-26-2017 South Wall A	N 29° 38 11.3" W 098° 16' 37.2"	CLEAR 80° SW 9	12:27	0.048	17.2	107.0	535	771.00	5,657	Warden - 21375 Gunther Grove

T = No Trigger, <0.020ips.

T = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2017**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
10/30/17	10-30-2017 3D	N 29° 38' 44.4" W 098° 17' 43.6"	CLEAR 75° S 8	15:12	0.070	13.2	105.0	1005	375.00	2,388	City Property Line
10/30/17	10-30-2017 3D	N 29° 38' 44.4" W 098° 17' 43.6"	CLEAR 75° S 8	15:12	0.125	12.5	107.0	1005	375.00	3,253	Michels - 9118 Tuscan Hills
10/30/17	10-30-2017 3D	N 29° 38' 44.4" W 098° 17' 43.6"	CLEAR 75° S 8	15:12	0.048	27.8	111.0	1005	375.00	3,222	Timmerman
10/30/17	10-30-2017 3D	N 29° 38' 44.4" W 098° 17' 43.6"	CLEAR 75° S 8	15:12	0.175	12.8	111.0	1005	375.00	2,192	Warden - 21375 Gunther Grove
10/30/17	10-30-2017 3D	N 29° 38' 44.4" W 098° 17' 43.6"	CLEAR 75° S 8	15:12	0.108	14.3	114.0	1005	375.00	1,999	Warden Property Line

#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to Quarry Commission
2017-26Q	September	9/14/2017	12:45	9/14/2017	Becky Meek	20459 Wahl Lane	210-241-4586				No	Today's was 80-90% harder than normal. Shook house side to side.	9/14/2017
2017-27Q	September	9/14/2017	12:48	9/14/2017	Beverly Pickering	20428 Wahl Lane	210-595-7082				No	One of the worst in quite a while. It moved chair/couch and was very loud. It used to be this bad, but not in a while	9/14/2017
2017-28Q	September	9/14/2017	12:45	9/14/2017	Missy Lantz	20515 Wahl Lane	651-3531	4	1.5	3000	No	The whole house shook!	9/14/2017
2017-29Q	September	9/14/2017	12:45	9/14/2017	Maria Mills	20202 Regency Run	210-744-5297	5	2	4000	No	No warning siren, scared everyone in home; daughter had a seizure.	9/14/2017
2017-30Q	August	8/2/2017	12:12	9/18/2017	JoAna Kessler	19960 FM 2252	210-651-5023	4	1	2400	No	Blast shook house, floor moved	9/18/2017
2017-31Q	August	8/16/2017	11:31	9/18/2017	JoAna Kessler	19960 FM 2252	210-651-6023	4	1	2400	No	House and floor shook	9/18/2017
2017-32Q	September	9/12/2017	12:05	9/18/2017	JoAna Kessler	19960 FM 2252	210-651-6023	4	1	2400	No	Blast - rumbling with a long lasting sound	9/18/2017
2017-33Q	September	9/14/2017	12:45	9/18/2017	JoAna Kessler	19960 FM 2252	210-651-6023	5+	1	2400	No	Hugh blast; house/windows shaking	9/18/2017
2017-34Q	September	9/22/2017	2:02	9/22/2017	Valenda McAlister Ba	21260 Forest Waters Circle		4	2	4400	No	Seemed bigger than the last few blasts	9/25/2017
2017-35Q	Septemer	9/14/2017	12:47	10/3/2017	Marie McCormick	19902 Regency Run	210-272-0920	4	2	3400	Yes	House shoook	10/3/2017
2017-36Q	October	10/3/2017	11:23	10/3/2017	Marie McCormick	19902 Regency Run	210-272-0920	3	2	3400	Yes	On a scale of 1-10 (10 being worst) I would rank this one about a 6. Felt like an earthquake - house shook	10/3/2017
2017-37Q	October	10/3/2017	11:23	10/3/2017	Marie Mills	20302 [Regency Run]	210-744-5297	4	2	5000	-	No warning till it was over. Big shock coming from underneath. Whole house shook, stair railing and all.	10/3/2017

2017-38Q	October	10/3/2017	11:20	10/3/2017	Erika Rodriguez	9328 Blazing Star Trail	830-542-2179	5	1.5	2900	No	Whole house moved, windows...dogs started to bark	10/3/2017
2017-39Q	October	10/3/2017	11:23	10/3/2017	Rebecca Baxter	9349 Teakwood Lane	210-902-9898	3	1.5	2600	No	I am assuming it was a quarry blast. Shook the entire house, and knocked a picture off the wall which shattered. It was extremely large and unexpected. My dogs freaked out.	10/3/2017
2017-40Q	October	10/3/2017	11:23	10/3/2017	Heather Ecton	9403 Gardenia Bend	210-419-7464	5	1	3400	Yes	Worst blast to date ... Walls shook; mirrors/pictures banged; bed moved. Husband walked outside to see what was going on... felt like earthquake.	10/3/2017
2017-41Q	October	10/3/2017	10:23 [sic]	10/3/2017	Robert Overfield	9618 Kurre Way	210-651-0455	5	1.5	3900	No	Very large blast	10/3/2017
2017-42Q	October	10/3/2017	11:23	10/3/2017	Lisa Molina	9909 Marie Meadow	210-564-5162	5	1	3500	Yes	We heard a loud blast/house shook, windows rattled, a few seconds later, another blast, house shook, windows rattled	10/3/2017
2017-43Q	October	10/3/2017	morning	10/3/2017	David Covington	9607 Primrose	210-651-5411	4	1.5	2800	Yes	Felt like sonic boom with house shimmy. I gave it a 4 b/c I should not be getting any blast effect this far away from quarry.	10/3/2017
2017-44Q	October	10/6/2017	2:25	10/6/2017	Myron Friedman	9908 Katherine Glen	210-325-3136	4	1	2800	No	I was on my home computer when there was a loud boom and our whole house suddered for about 15 seconds	10/11/2017

2017-45Q	October	11/2/2017	2:25	10/6/2017	Jerry Mills	20302 Regency Run	210-744-5297	5	2	5000	No	Powerful blast from north direction. My special needs daughter had a seizure as a result.	11/2/2017
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Adm Liaison

From: Adm Liaison
Sent: Thursday, September 14, 2017 2:26 PM
To: Lori Claus
Cc: Shelley Goodwin
Subject: Citizen Blast Report - 9/14/17

9/14/17 – Blast Report (resident had trouble filling out online form)

Becky Meek
20459 Wahl Lane
210-241-4586

Today's was 80-90% harder than normal. Shook house side-to-side.

Quarry Commission no need to contact

Lori Claus
Administrative Support Liaison
City of Garden Ridge
210-651-6632
AdmLiaison@ci.garden-ridge.tx.us

Adm Liaison

From: Adm Liaison
Sent: Thursday, September 14, 2017 2:26 PM
To: Lori Claus
Subject: 9/14/17 - Citizen Blast Report

9/14/17; 12:48 PM – Blast Report (resident had trouble filling out online form)

Beverly Pickering
20428 Wahl Lane
210-595-7082

One of the worst for quite a while. It moved chair/couch and very loud
Quarry Commission – no need to call
It used to be this bad, but not in a while.

Lori Claus
Administrative Support Liaison
City of Garden Ridge
210-651-6632
AdmLiaison@ci.garden-ridge.tx.us

Adm Liaison

From: Adm Liaison
Sent: Thursday, September 14, 2017 2:26 PM
To: Lori Claus
Subject: FW: Online Form Submittal: Citizen Quarry Blast Impact Report

Lori Claus
Administrative Support Liaison
City of Garden Ridge
210-651-6632
AdmLiaison@ci.garden-ridge.tx.us

From: noreply@civicplus.com [mailto:noreply@civicplus.com]
Sent: Thursday, September 14, 2017 12:50 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Missy

Last Name Lantzy

Report Date 9/14/2017

Phone Number: 6513531

E-Mail Address *Field not completed.*

Address1 20515 Wahl lane

Blast Date/Time: 12:45

Please describe the event. The whole house shook!!!!

How did this blast compare to other blasts? Worse

On a 1 to 5 scale, please rate the blast intensity.
(1=minor, 5 = major) 4

What was your activity at the time of blast? Watching tv

In what general direction N

Adm Liaison

From: Adm Liaison
Sent: Thursday, September 14, 2017 2:26 PM
To: Lori Claus
Subject: FW: Online Form Submittal: Citizen Quarry Blast Impact Report

Lori Claus
Administrative Support Liaison
City of Garden Ridge
210-651-6632
AdmLiaison@ci.garden-ridge.tx.us

From: noreply@civicplus.com [<mailto:noreply@civicplus.com>]
Sent: Thursday, September 14, 2017 1:34 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	MARIA
Last Name	MILLS
Report Date	9/14/2017
Phone Number:	210-744-5297
E-Mail Address	JERRYRMILLS@HOTMAIL.COM
Address1	20202 REGENCY RUN
Blast Date/Time:	9/14/17/12:45
Please describe the event.	NO WARNING SIREN, SCARED EVERYONE IN HOME, DAUGHTER HAD A SEIZURE.
How did this blast compare to other blasts?	EXTREMELY LOUD, VIOLENT SHAKING
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	SITTING AT TABLE

In what general direction does your house face?
(N,E,S or W) W

What is the approximate square footage of your home? 4000

Is your home a 1 story, 1 1/2 , or 2 story or large? 2

Would you like a Quarry Commission member to contact you regarding your report? No

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

By filing this report, you consent to the public release of this information.

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CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: Jo Ann Kessler Report Date: 3/2/2017

Address: 19900 FM 2252 E-Mail Address: _____

Phone: 210-651-5023 Blast Date/Time: 8/2/2017 / 12:12 pm

Please describe the event.

BLAST SHOOK HOUSE. FLOOR MOVED

How did this blast compare to other blasts? 8 - of 10

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? HOUSE WORK

In what general direction does your house face? (N, E, S or W) N

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 24

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) _____

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Please complete the form and print it, then submit the completed report(s) to the City Hall or to quarrycom@ci.garden-ridge.tx.us. Thank you for submitting the form.

SEP 18 2017

JH

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: Jo Ann Kessler Report Date: 8/16/2017

Address: 19900 Fm 2252 E-Mail Address: _____

Phone: _____ Blast Date/Time: 11:31 / 8/16/2017

Please describe the event.

HOUSE AND FLOOR SHOOK

How did this blast compare to other blasts? SAME

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? WORKING ON COMPUTER

In what general direction does your house face? (N, E, S or W) N

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 2400

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) _____

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RECEIVED

SEP 18 2017

Please complete the form and print it, then submit the completed report(s) to the City Hall or to quarrycom@ci.garden-ridge.tx.us. Thank you for submitting the form.

JH

2017-31Q

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: To Ana Kessler Report Date: 9/12/2017

Address: 19960 FM 2252 E-Mail Address: _____

Phone: _____ Blast Date/Time: 9/12/17 - 1/12:05

Please describe the event.

BLAST - RUMBLING WITH A LONG LASTING
Sound.

How did this blast compare to other blasts? SAME

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? COOKING LUNCH

In what general direction does your house face? (N, E, S or W) N

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 2400

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) _____

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

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Please complete the form and print it, then submit the completed report(s) to the City Hall or to quarrycom@ci.garden-ridge.tx.us. Thank you for submitting the form. **SEP 18 2017**

JH
2017-322

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: JoAnn Kessler Report Date: 9/14/2017

Address: 19960 FM 2252 E-Mail Address: _____

Phone: _____ Blast Date/Time: 9/14/17 / 12:45

Please describe the event.

HUGE BLAST - HOUSE - WINDOWS
SHAKING

How did this blast compare to other blasts? LARGER

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 5+

What was your activity at the time of the blast? Lunch

In what general direction does your house face? (N, E, S or W) N

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 2400

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) DOESN'T DO ANY GOOD!

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

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Please complete the form and print it, then submit the completed report(s) to the City Hall or SEP 18 2017
quarrycom@ci.garden-ridge.tx.us. Thank you for submitting the form.

PER JH
2017-332

Adm Liaison

From: noreply@civicplus.com
Sent: Friday, September 22, 2017 2:07 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Valinda

Last Name McAlister Bacon

Report Date 9/22/2017

Phone Number: *Field not completed.*

E-Mail Address valindam@sbcglobal.net

Address1 21260 Forest Waters Circle

Blast Date/Time: 2:02pm

Please describe the event. Short

How did this blast compare to other blasts? Seemed bigger than the last few blasts...

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major) 4

What was your activity at the time of blast? working on computer

In what general direction does you house face? (N,E,S or W) S

What is the approximate square footage of your home? 4400

Is your home a 1 story, 1 1/2 , or 2 story or large? 2

Would you like a Quarry Commission member to contact you regarding No

your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 11:47 AM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Marie
Last Name McCormick
Report Date 10/3/2017
Phone Number: 210-272-0920
E-Mail Address Dmmccormick1982@gmail.com
Address1 19902 Regency Run
Blast Date/Time: 09/14/2017@12:47 pm
Please describe the event. House shook
How did this blast compare to other blasts? Same -
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major) 4
What was your activity at the time of blast? In my living room
In what general direction does you house face? (N,E,S or W) S
What is the approximate square footage of your home? 3400 SF
Is your home a 1 story, 1 1/2 , or 2 story or large? 2 story
Would you like a Quarry Commission member to contact you regarding Yes

your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 11:43 AM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Marie

Last Name McCormick

Report Date 10/3/2017

Phone Number: 210-272-0920

E-Mail Address Dmmccormick1982@gmail.com

Address1 19902 Regency Run

Blast Date/Time: 10/03/2017/11:23 am

Please describe the event. On a scale from 1-10 (10 being worst) I would rank this one about a 6. Felt like an earthquake - house shook

How did this blast compare to other blasts? No differences in other blasts

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major) 3

What was your activity at the time of blast? In my kitchen

In what general direction does you house face? (N,E,S or W) S

What is the approximate square footage of your home? 3400 SF

Is your home a 1 story, 1 1/2 , or 2 story or large? 2 story

Would you like a Quarry Commission member to

Yes

contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 11:34 AM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Marie
Last Name	Mills
Report Date	Field not completed.
Phone Number:	2107445297
E-Mail Address	Field not completed.
Address1	20302
Blast Date/Time:	3 October 2017 ,11:23
Please describe the event.	No warning till it was over . Big schock coming from underneath . Whole house shook , stair railing and all .
How did this blast compare to other blasts?	Scary ,unprepared , from the ground up.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	At the kitchen table .
In what general direction does you house face? (N,E,S or W)	W
What is the approximate square footage of your home?	5000
Is your home a 1 story, 1 1/2 , or 2 story or large?	2
Would you like a Quarry Commission member to	Field not completed.

contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 11:52 AM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name ERIKA

Last Name RODRIGUEZ

Report Date 10/3/2017

Phone Number: 8305422179

E-Mail Address ERIKATEXASREALESTATE@GMAIL.COM

Address1 9328 BLAZING STAR TRL

Blast Date/Time: OCT 3/11:20AM

Please describe the event. WHOLE HOUSE moved, windows...dogs started to bark.

How did this blast compare to other blasts? loud and heavy..

On a 1 to 5 scale, please rate the blast intensity.
(1=minor, 5 = major) 5

What was your activity at the time of blast? SITTING DOWN

In what general direction does you house face?
(N,E,S or W) *Field not completed.*

What is the approximate square footage of your home? 2900

Is your home a 1 story, 1 1/2 , or 2 story or large? 1.5

Would you like a Quarry Commission member to contact you regarding No

your report?

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 12:01 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Rebecca

Last Name Baxter

Report Date 10/3/2017

Phone Number: 210-902-9898

E-Mail Address beckyrushbaxter@gmail.com

Address1 9439 Teakwood Ln

Blast Date/Time: 10/03/2017 11:23a.m.

Please describe the event. I am assuming it was a quarry blast. Shook the entire house, and knocked a picture off the wall which shattered. It was extremely large and unexpected. My dogs freaked out.

How did this blast compare to other blasts? This blast was much larger than any I have experienced.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major) 3

What was your activity at the time of blast? On the computer

In what general direction does you house face? (N,E,S or W) SE

What is the approximate square footage of your home? 2600

Is your home a 1 story, 1 1/2 , or 2 story or large? Split level

Would you like a Quarry Commission member to contact you regarding your report? No

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 12:07 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Heather
Last Name	Ecton
Report Date	10/3/2017
Phone Number:	2104197464
E-Mail Address	heatherection@icloud.com
Address1	9403 Gardenia Bend Dr Garden Ridge TX 78266
Blast Date/Time:	11:23 a.m.
Please describe the event.	Worst blast to date. Our entire house shook pretty bad. Never have we experienced a blast this bad in over 5 years of living in this home. The walls shook, mirrors/pictures banged against the walls and the bed rattled and actually moved. Enough to make my husband jump up and ask if everything was ok and then walk outside to see what was going on. It scared our 4 year old. This one felt like we just went through an earthquake. What is going on?! We have neighbors asking the same question after this one just now.
How did this blast compare to other blasts?	Worst one to date in over 5 years of living in same home. The blasts feel like they are getting closer and stronger. please contact via email.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	at home
In what general direction does you house face? (N,E,S or W)	S

What is the approximate square footage of your home? 3400

Is your home a 1 story, 1 1/2 , or 2 story or large? 1

Would you like a Quarry Commission member to contact you regarding your report? Yes

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 12:17 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Robert

Last Name Overfield

Report Date 10/3/2017

Phone Number: 210-651-0455

E-Mail Address loverfield@beck-field.com

Address1 9618 Kurre Way

Blast Date/Time: 10/03/2017/10:23AM

Please describe the event. Very large blast

How did this blast compare to other blasts? Much bigger

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major) 5

What was your activity at the time of blast? sitting at my desk inside the house

In what general direction does you house face? (N,E,S or W) N

What is the approximate square footage of your home? 3900

Is your home a 1 story, 1 1/2 , or 2 story or large? 1 1/2

Would you like a Quarry Commission member to contact you regarding No

your report?

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 2:35 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Lisa
Last Name	Molina
Report Date	10/3/2017
Phone Number:	210-564-5162
E-Mail Address	molinafam6@hotmail.com
Address1	9909 Marie Meadow
Blast Date/Time:	11:23 A.M.
Please describe the event.	We heard a loud blast and then the house shook ... windows rattled, and few seconds later another blast and house shook again and rattled windows doors etc.
How did this blast compare to other blasts?	This has been the closest and more intense blast than in the past
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	grabbing laundry from master bathroom
In what general direction does you house face? (N,E,S or W)	N
What is the approximate square footage of your home?	3500
Is your home a 1 story, 1 1/2 , or 2 story or large?	1

Would you like a Quarry Commission member to contact you regarding your report? Yes

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

By filing this report, you consent to the public release of this information.

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Adm Liaison

From: noreply@civicplus.com
Sent: Tuesday, October 03, 2017 3:27 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	David
Last Name	Covington
Report Date	10/3/2017
Phone Number:	2106515411
E-Mail Address	covsplace@gmail.com
Address1	9607 Primrose
Blast Date/Time:	morning
Please describe the event.	Felt like sonic boom with some house shimmy. Never felt that before. We are not close to the quarry, so if that's where it came from then it was a significant event.
How did this blast compare to other blasts?	I've only felt one blast here and it was several years ago. I gave it a 4, because I should not be getting any blast effect this far away from the quarry. Been here 34 years and that was before the quarry was where it is now, so it can't be said that they were here first.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	sitting at desk
In what general direction does you house face? (N,E,S or W)	S
What is the approximate square footage of your home?	2800

Is your home a 1 story, 1 Split level
1/2 , or 2 story or large?

Would you like a Quarry Yes
Commission member to
contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
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the Quarry Manager normally attend every meeting and are available to answer
questions. The Commission meets the second Monday of every other month at
6:00 PM in the City Council Chambers in City Hall.*

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Adm Liaison

From: noreply@civicplus.com
Sent: Friday, October 06, 2017 3:31 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Myron
Last Name	Friedman
Report Date	10/6/2017
Phone Number:	210-325-3136
E-Mail Address	aafriedman@aol.com
Address1	9908 Katharine Glen, Garden Ridge, TX 78266
Blast Date/Time:	10/06/2017/2:25 pm
Please describe the event.	I was on my home computer when there was a loud bang and our whole house shuddered for about 15 seconds.
How did this blast compare to other blasts?	Much stronger
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	Using my home computer
In what general direction does you house face? (N,E,S or W)	NE
What is the approximate square footage of your home?	2800
Is your home a 1 story, 1 1/2 , or 2 story or large?	1
Would you like a Quarry Commission member to	No

contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
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Adm Liaison

From: noreply@civicplus.com
Sent: Thursday, November 02, 2017 2:30 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name Jerry

Last Name Mills

Report Date 10/6/2017

Phone Number: 2107445297

E-Mail Address Jerryrmills@hotmail.com

Address1 20302 Regency run

Blast Date/Time: 2:25

Please describe the event. Powerful blast from north direction. My special needs daughter had a seizure as a result.

How did this blast compare to other blasts? More powerful

On a 1 to 5 scale, please rate the blast intensity. 5
(1=minor, 5 = major)

What was your activity at the time of blast? In my kitchen

In what general direction does you house face? West
(N,E,S or W)

What is the approximate square footage of your home? 5000

Is your home a 1 story, 1 1/2 , or 2 story or large? 2 story

Would you like a Quarry Commission member to

No

contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
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