



**AGENDA
REGULAR SESSION
GARDEN RIDGE QUARRY COMMISSION MEETING
Monday, January 8, 2018 at 6:00 p.m.**

The Garden Ridge City Quarry Commission will meet in regular session on Monday, January 8, 2018 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 January 5, 2018 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. November 13, 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 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.
- 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 Vibratex and notification to residents of monitor placements. Discuss moving monitor from the Larrew residence to Mr. David Gordon's residence on Gunther Grove.
- d. Discuss Grapevine article topics.
- e. Presentations regarding (1) weather considerations in blasting and (2) waveforms.
- f. 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 January 5, 2018 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



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

Members Present:

Chairman Mike Shands
Commissioner Albert Haddad
Commissioner Richard Holloway
Commissioner Jerry Barucky
Commissioner Johnell Holly
Bryan Lantzy, Councilmember (Ex-officio member)

Member Absent:

Vice Chairman Wayne Mudge
Commissioner Mark DuBois

City Staff Present:

Nancy Cain, City Administrator
Lori Claus, Administrative Assistant

1. Call to Order :

With a quorum of the Quarry Commission Members present, Chairman Mike Shands called the regular session of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, November 13, 2017, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Approval of Minutes:

a. September 11, 2017 Regular Quarry Commission Meeting

Motion: Upon motion made by Commissioner Holly and seconded by Commissioner Barucky to approve the September 11, 2017 Regular Quarry Commission Meeting Minutes. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

3. Citizens Comments – Limited to 30 minutes

No one wished to speak.

4. 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.**

Jeffrey Rigsby, Vibra-Tech, presented and discussed the September blast analysis. He stated that 8 blasts occurred during the month of September and none of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on September 7, 2017, in 1A, with 0.350 ppv and frequency of 12.2 Hz, recorded at the Warden residence. The strongest air blast occurred on September 7, 2017, in 1A with an overpressure of 122.0 dB recorded at the Warden Property Line, which reading is at the Ordinance limit. He also discussed the timing and shots.

Mr. Rigsby then presented and discussed the October blast analysis. He stated that 10 blasts occurred during the month of October and one of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on October 18, 2017, in Bench 1A, with 0.433 ppv and frequency of 12.5 Hz, , recorded at the Warden residence. The strongest air blast occurred on October 10, 2017, in 3F with an overpressure of 125.0 dB recorded at the Warden Property Line, which is over the Ordinance limit of 122.0 dB. He also discussed the timing and shots.

Nolan Eckroade, Orica, investigated the ordinance exceedance of October 10, 2017 and found that the primary influence in the high reading was direction. At the time of the blast, there was a very strong and unexpected gust of wind from the north. The seismographs further away from the blast registered high air over pressure readings due to the wind pushing the blast in that direction.

In general, special precautions are taken when wind speeds are at 8 mph or above. Going forward, stricter guidelines will be put in place regarding whether or not to shoot and where to shoot, as well as adjusting the load and stemming of the blasts to reduce the effects of wind and gusts.

- 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.**

There were a few blasts during September and October that resulted in multiple citizen reports. The major reasons for the increase in citizen reports for these blasts are (1) the proximity of the blasts to residential areas (blasting is moving closer to residential areas); (2) the low frequency readings of the blasts which causes structures to “feel” the blasts more; and (3) the high air over pressure readings due to winds. Notifying residents of upcoming blasts sometimes causes blasts to feel worse than they actually are due to anticipation and anxiety.

- 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.**

The Commission discussed the placement of the roving monitor. It is currently at the Timmerman residence and will be moved to the Larrew residence. In January, the monitor should be moved to Mr. David Gordon's residence on Gunther Grove.

d. Nominations and vote on:

- 1. Quarry Commission Chair**
- 2. Quarry Commission Vice-Chair**

Commissioner Haddad and Commissioner Holly suggested continuing with Mike Shands as Commission Chair and Wayne Mudge as Commission Vice Chair.

Motion: Upon motion made by Commissioner Holloway and seconded by Commissioner Barucky for Mike Shands as Chair. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

Motion: Upon motion made by Commissioner Holloway and seconded by Commissioner Barucky for Wayne Mudge as Vice Chair. The Quarry Commission voted five (5) for, none (0) opposed. The motion carried unanimously.

e. Discuss Grapevine article topics.

The Commission agreed by consensus for the Grapevine articles to continue as previously written and to re-state that blasting is moving closer to 3009 and 2252. Also, there should be a future article discussing the steps being taken to reduce blast impacts on residents of the City of Garden Ridge.

f. Presentation by Orica regarding the velocity of detonation.

Nolan Eckroade, Orica, presented an informative program regarding the velocity of detonation.

g. Discuss future training sessions.

The Commission discussed and agreed by consensus for future training sessions to include how weather affects blasts, what adjustments are made to reduce blast effects and how to read seismograph data.

5. Citizen's Participation - Limited to 20 minutes

No one wished to speak.

7. Adjournment:

There being no further business, the Monday, November 13, 2017 Garden Ridge Quarry Commission regular session was adjourned at 7:30 p.m. by Chairman Shands.

Mike Shands
Quarry Commission Chair

ATTEST

Lori Claus
Administrative Support Liaison



December 7, 2017

VibraTechinc.com

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 November 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).

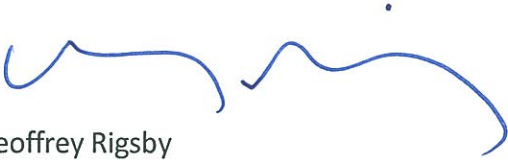
The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

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

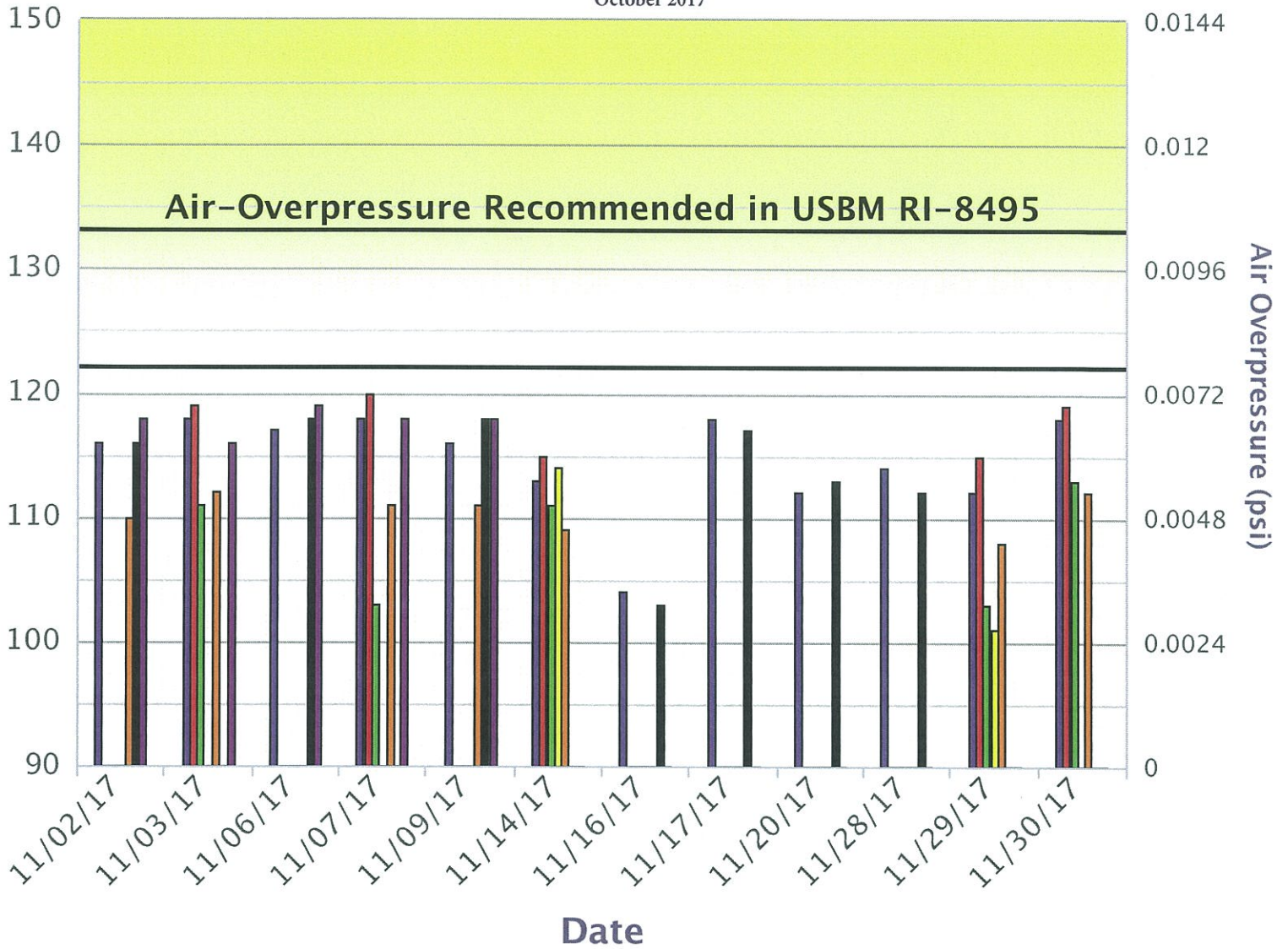
cc: Hal Halamuda, Hanson – Servtex



Google earth

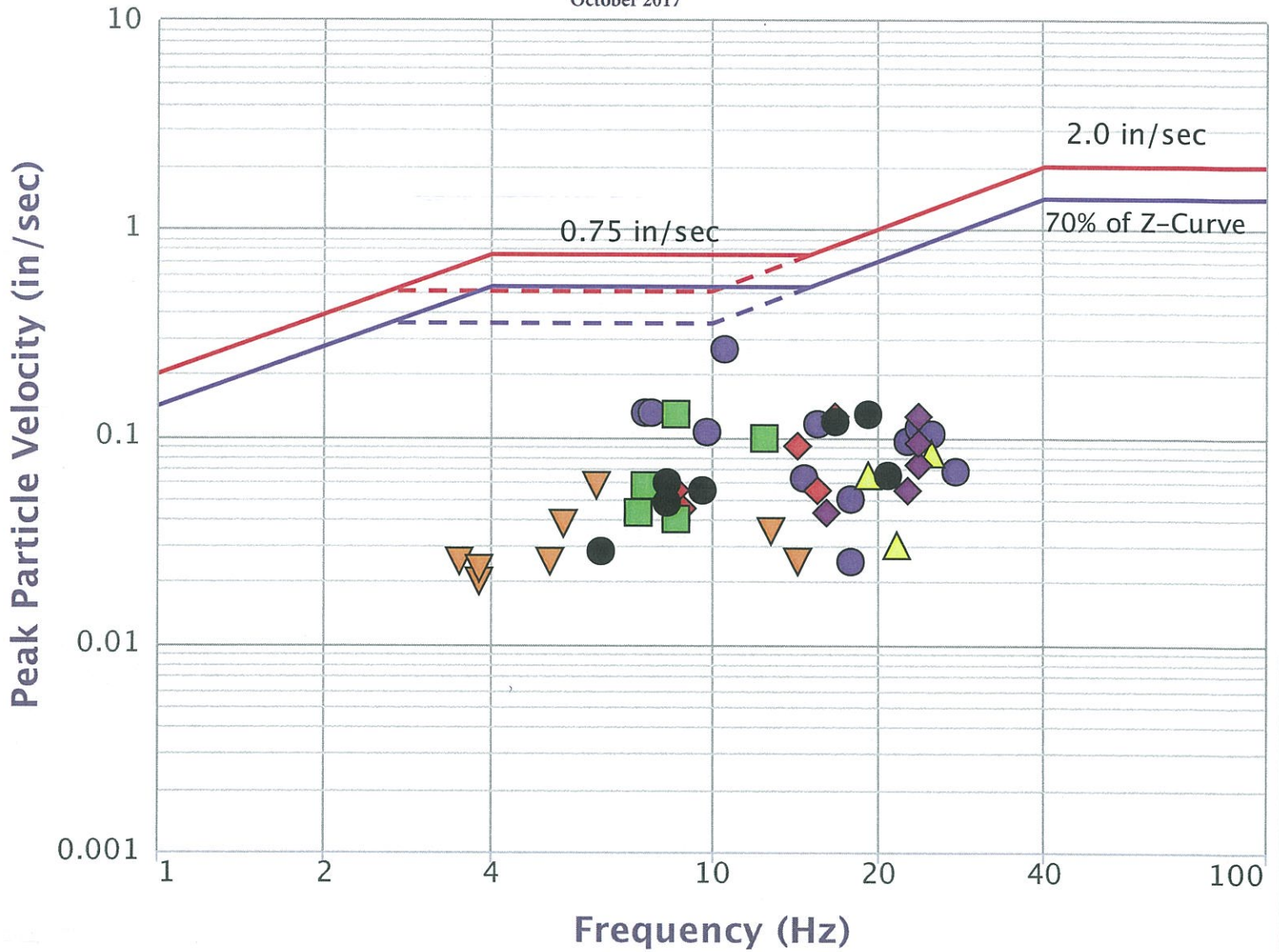
29°38'33.82" N 98°17'19.26" W elev 777 ft eye alt 13210 ft

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



■ Warden Residence
 ■ Warden Property Line
 ■ Michels Residence
 ■ Larrew Resident
■ City Property Line
 ■ Holly Residence
 ■ Timmerman

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



- Warden Residence
- Warden Property Line
- Michels Residence
- Larrew Resident
- City Property Line
- Holly Residence
- Timmerman

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 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
11/02/17	11-02-2017 South Wall F	N 29° 38 9.3" W 098° 16' 54.6"	PT CLOUDY 80° SW 7	15:12	0.065	20.8	116.0	737	396.00	2,858	Holly - 9916 Trophy Oaks
11/02/17	11-02-2017 South Wall F	N 29° 38 9.3" W 098° 16' 54.6"	PT CLOUDY 80° SW 7	15:12	0.025	3.5	110.0	737	396.00	5,401	City Property Line
11/02/17	11-02-2017 South Wall F	N 29° 38 9.3" W 098° 16' 54.6"	PT CLOUDY 80° SW 7	15:12	0.073	23.8	118.0	737	396.00	2,973	Timmerman
11/02/17	11-02-2017 South Wall F	N 29° 38 9.3" W 098° 16' 54.6"	PT CLOUDY 80° SW 7	15:12	NT	NT	NT	737	396.00	8,647	Michels - 9118 Tuscan Hills
11/02/17	11-02-2017 South Wall F	N 29° 38 9.3" W 098° 16' 54.6"	PT CLOUDY 80° SW 7	15:12	0.095	22.7	116.0	737	396.00	4,233	Warden - 21375 Gunther Grove
11/03/17	11-03-2017 Lower 6	N 29° 38 54.0" W 098° 17' 7.7"	PT CLOUDY 80° SE 8	12:06	0.038	5.4	112.0	991	589.00	5,168	City Property Line
11/03/17	11-03-2017 Lower 6	N 29° 38 54.0" W 098° 17' 7.7"	PT CLOUDY 80° SE 8	12:06	0.055	22.7	116.0	991	589.00	4,241	Timmerman
11/03/17	11-03-2017 Lower 6	N 29° 38 54.0" W 098° 17' 7.7"	PT CLOUDY 80° SE 8	12:06	0.040	8.6	111.0	991	589.00	6,317	Michels - 9118 Tuscan Hills
11/03/17	11-03-2017 Lower 6	N 29° 38 54.0" W 098° 17' 7.7"	PT CLOUDY 80° SE 8	12:06	0.130	7.6	118.0	991	589.00	4,238	Warden - 21375 Gunther Grove
11/03/17	11-03-2017 Lower 6	N 29° 38 54.0" W 098° 17' 7.7"	PT CLOUDY 80° SE 8	12:06	0.045	8.9	119.0	991	589.00	4,016	Warden Property Line
11/06/17	11-06-2017 South Wall G	N 29° 38 6.8" W 098° 16' 59.4"	PT CLOUDY 80° S 8	13:30	0.128	19.2	118.0	919	375.00	2,518	Holly - 9916 Trophy Oaks
11/06/17	11-06-2017 South Wall G	N 29° 38 6.8" W 098° 16' 59.4"	PT CLOUDY 80° S 8	13:30	0.093	23.8	119.0	919	375.00	2,639	Timmerman
11/06/17	11-06-2017 South Wall G	N 29° 38 6.8" W 098° 16' 59.4"	PT CLOUDY 80° S 8	13:30	0.105	25.0	117.0	919	375.00	3,935	Warden - 21375 Gunther Grove
11/06/17	11-06-2017 South Wall G	N 29° 38 6.8" W 098° 16' 59.4"	PT CLOUDY 80° S 8	13:30	NT	NT	NT	919	375.00	8,421	Michels - 9118 Tuscan Hills
11/06/17	11-06-2017 South Wall G	N 29° 38 6.8" W 098° 16' 59.4"	PT CLOUDY 80° S 8	13:30	NT	NT	NT	919	375.00	5,067	City Property Line

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 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
11/07/17	11-07-2017 Upper 3B	N 29° 38 40.4" W 098° 17' 38.9"	PT CLOUDY 80° SW 8	13:40	0.058	6.2	111.0	568	120.00	2,237	City Property Line
11/07/17	11-07-2017 Upper 3B	N 29° 38 40.4" W 098° 17' 38.9"	PT CLOUDY 80° SW 8	13:40	0.125	16.7	120.0	568	120.00	1,550	Warden Property Line
11/07/17	11-07-2017 Upper 3B	N 29° 38 40.4" W 098° 17' 38.9"	PT CLOUDY 80° SW 8	13:40	0.058	7.6	103.0	568	120.00	3,765	Michels - 9118 Tuscan Hills
11/07/17	11-07-2017 Upper 3B	N 29° 38 40.4" W 098° 17' 38.9"	PT CLOUDY 80° SW 8	13:40	0.043	16.1	118.0	568	120.00	2,683	Timmerman
11/07/17	11-07-2017 Upper 3B	N 29° 38 40.4" W 098° 17' 38.9"	PT CLOUDY 80° SW 8	13:40	0.263	10.6	118.0	568	120.00	1,766	Warden - 21375 Gunther Grove
11/09/17	11-09-2017 South Wall H	N 29° 38 6.8" W 098° 16' 59.7"	CLOUDY 64° NE 8	13:01	0.118	16.7	118.0	870	390.00	2,493	Holly - 9916 Trophy Oaks
11/09/17	11-09-2017 South Wall H	N 29° 38 6.8" W 098° 16' 59.7"	CLOUDY 64° NE 8	13:01	0.025	5.1	111.0	870	390.00	5,042	City Property Line
11/09/17	11-09-2017 South Wall H	N 29° 38 6.8" W 098° 16' 59.7"	CLOUDY 64° NE 8	13:01	0.125	23.8	118.0	870	390.00	2,615	Timmerman
11/09/17	11-09-2017 South Wall H	N 29° 38 6.8" W 098° 16' 59.7"	CLOUDY 64° NE 8	13:01	NT	NT	NT	870	390.00	8,399	Michels - 9118 Tuscan Hills
11/09/17	11-09-2017 South Wall H	N 29° 38 6.8" W 098° 16' 59.7"	CLOUDY 64° NE 8	13:01	0.103	25.0	116.0	870	390.00	3,911	Warden - 21375 Gunther Grove
11/14/17	11-14-2017 3G	N 29° 39 0.5" W 098° 17' 44.3"	CLOUDY 80° S 8	13:59	0.035	12.8	109.0	869	337.00	3,931	City Property Line
11/14/17	11-14-2017 3G	N 29° 39 0.5" W 098° 17' 44.3"	CLOUDY 80° S 8	13:59	0.083	25.0	114.0	869	337.00	3,141	Larrew
11/14/17	11-14-2017 3G	N 29° 39 0.5" W 098° 17' 44.3"	CLOUDY 80° S 8	13:59	0.128	8.6	111.0	869	337.00	3,201	Michels - 9118 Tuscan Hills
11/14/17	11-14-2017 3G	N 29° 39 0.5" W 098° 17' 44.3"	CLOUDY 80° S 8	13:59	0.115	15.6	113.0	869	337.00	3,819	Warden - 21375 Gunther Grove
11/14/17	11-14-2017 3G	N 29° 39 0.5" W 098° 17' 44.3"	CLOUDY 80° S 8	13:59	0.090	14.3	115.0	869	337.00	3,619	Warden Property Line

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 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
11/16/17	11-16-2017 Lower South Wall B	N 29° 38' 12.6" W 098° 16' 41.8"	PT CLOUDY 80° SW 5	13:02	NT	NT	NT	604	222.00	9,491	Michels - 9118 Tuscan Hills
11/16/17	11-16-2017 Lower South Wall B	N 29° 38' 12.6" W 098° 16' 41.8"	PT CLOUDY 80° SW 5	13:02	NT	NT	NT	604	222.00	10,253	Larrew
11/16/17	11-16-2017 Lower South Wall B	N 29° 38' 12.6" W 098° 16' 41.8"	PT CLOUDY 80° SW 5	13:02	NT	NT	NT	604	222.00	6,437	City Property Line
11/16/17	11-16-2017 Lower South Wall B	N 29° 38' 12.6" W 098° 16' 41.8"	PT CLOUDY 80° SW 5	13:02	0.028	6.3	103.0	604	222.00	3,933	Holly - 9916 Trophy Oaks
11/16/17	11-16-2017 Lower South Wall B	N 29° 38' 12.6" W 098° 16' 41.8"	PT CLOUDY 80° SW 5	13:02	0.025	17.9	104.0	604	222.00	5,233	Warden - 21375 Gunther Grove
11/17/17	11-17-2017 South Wall E	N 29° 38' 9.1" W 098° 16' 53.5"	PT CLOUDY 69° SW 9	11:11	NT	NT	NT	532	996.00	5,500	City Property Line
11/17/17	11-17-2017 South Wall E	N 29° 38' 9.1" W 098° 16' 53.5"	PT CLOUDY 69° SW 9	11:11	NT	NT	NT	532	996.00	8,741	Michels - 9118 Tuscan Hills
11/17/17	11-17-2017 South Wall E	N 29° 38' 9.1" W 098° 16' 53.5"	PT CLOUDY 69° SW 9	11:11	NT	NT	NT	532	996.00	9,630	Larrew
11/17/17	11-17-2017 South Wall E	N 29° 38' 9.1" W 098° 16' 53.5"	PT CLOUDY 69° SW 9	11:11	0.055	9.6	117.0	532	996.00	2,957	Holly - 9916 Trophy Oaks
11/17/17	11-17-2017 South Wall E	N 29° 38' 9.1" W 098° 16' 53.5"	PT CLOUDY 69° SW 9	11:11	0.063	14.7	118.0	532	996.00	4,331	Warden - 21375 Gunther Grove
11/20/17	11-20-2017 South Wall F	N 29° 38' 8.9" W 098° 16' 54.0"	CLEAR 65° S 7	11:56	NT	NT	NT	866	411.00	5,462	City Property Line
11/20/17	11-20-2017 South Wall F	N 29° 38' 8.9" W 098° 16' 54.0"	CLEAR 65° S 7	11:56	NT	NT	NT	866	411.00	9,609	Larrew
11/20/17	11-20-2017 South Wall F	N 29° 38' 8.9" W 098° 16' 54.0"	CLEAR 65° S 7	11:56	NT	NT	NT	866	411.00	8,713	Michels - 9118 Tuscan Hills
11/20/17	11-20-2017 South Wall F	N 29° 38' 8.9" W 098° 16' 54.0"	CLEAR 65° S 7	11:56	0.060	8.3	113.0	866	411.00	2,918	Holly - 9916 Trophy Oaks
11/20/17	11-20-2017 South Wall F	N 29° 38' 8.9" W 098° 16' 54.0"	CLEAR 65° S 7	11:56	0.068	27.8	112.0	866	411.00	4,296	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 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
11/28/17	11-28-2017 South Wall A	N 29° 38' 11.5" W 098° 16' 36.0"	PT CLOUDY 78° SW 8	11:39	NT	NT	NT	458	716.00	10,002	Michels - 9118 Tuscan Hills
11/28/17	11-28-2017 South Wall A	N 29° 38' 11.5" W 098° 16' 36.0"	PT CLOUDY 78° SW 8	11:39	NT	NT	NT	458	716.00	10,741	Larrew
11/28/17	11-28-2017 South Wall A	N 29° 38' 11.5" W 098° 16' 36.0"	PT CLOUDY 78° SW 8	11:39	0.048	8.3	112.0	458	716.00	4,450	Holly - 9916 Trophy Oaks
11/28/17	11-28-2017 South Wall A	N 29° 38' 11.5" W 098° 16' 36.0"	PT CLOUDY 78° SW 8	11:39	0.020	3.8	86.0	458	716.00	6,959	City Property Line
11/28/17	11-28-2017 South Wall A	N 29° 38' 11.5" W 098° 16' 36.0"	PT CLOUDY 78° SW 8	11:39	0.050	17.9	114.0	458	716.00	5,756	Warden - 21375 Gunther Grove
11/29/17	11-29-2017 3H	N 29° 39' 0.9" W 098° 17' 44.1"	PT CLOUDY 78° SW 6	15:31	0.025	14.3	108.0	876	115.00	3,974	City Property Line
11/29/17	11-29-2017 3H	N 29° 39' 0.9" W 098° 17' 44.1"	PT CLOUDY 78° SW 6	15:31	0.065	19.2	101.0	876	115.00	3,148	Larrew
11/29/17	11-29-2017 3H	N 29° 39' 0.9" W 098° 17' 44.1"	PT CLOUDY 78° SW 6	15:31	0.098	12.5	103.0	876	115.00	3,229	Michels - 9118 Tuscan Hills
11/29/17	11-29-2017 3H	N 29° 39' 0.9" W 098° 17' 44.1"	PT CLOUDY 78° SW 6	15:31	0.055	15.6	115.0	876	115.00	3,657	Warden Property Line
11/29/17	11-29-2017 3H	N 29° 39' 0.9" W 098° 17' 44.1"	PT CLOUDY 78° SW 6	15:31	0.105	9.8	112.0	876	115.00	3,858	Warden - 21375 Gunther Grove
11/30/17	11-30-2017 Lower 6 East Wall	N 29° 38' 54.3" W 098° 17' 3.4"	PT CLOUDY 78° SW 6	11:46	0.023	3.8	112.0	756	554.00	5,490	City Property Line
11/30/17	11-30-2017 Lower 6 East Wall	N 29° 38' 54.3" W 098° 17' 3.4"	PT CLOUDY 78° SW 6	11:46	0.030	21.7	79.0	756	554.00	6,791	Larrew
11/30/17	11-30-2017 Lower 6 East Wall	N 29° 38' 54.3" W 098° 17' 3.4"	PT CLOUDY 78° SW 6	11:46	0.043	7.4	113.0	756	554.00	6,696	Michels - 9118 Tuscan Hills
11/30/17	11-30-2017 Lower 6 East Wall	N 29° 38' 54.3" W 098° 17' 3.4"	PT CLOUDY 78° SW 6	11:46	0.055	8.6	119.0	756	554.00	4,305	Warden Property Line
11/30/17	11-30-2017 Lower 6 East Wall	N 29° 38' 54.3" W 098° 17' 3.4"	PT CLOUDY 78° SW 6	11:46	0.130	7.8	118.0	756	554.00	4,522	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB



VibraTechinc.com

December 28, 2017

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 December 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



Larrew

Michels

12-04-2017 Upper 3B

Warden Property Line

City Property Line

Garden Ridge

Timmerman

Holly

12-12-2017 South Wall 0

12-13-2017 South Wall B

12-14-2017 South Wall A

12-11-2017 South Wall E

12-01-2017 South Wall G

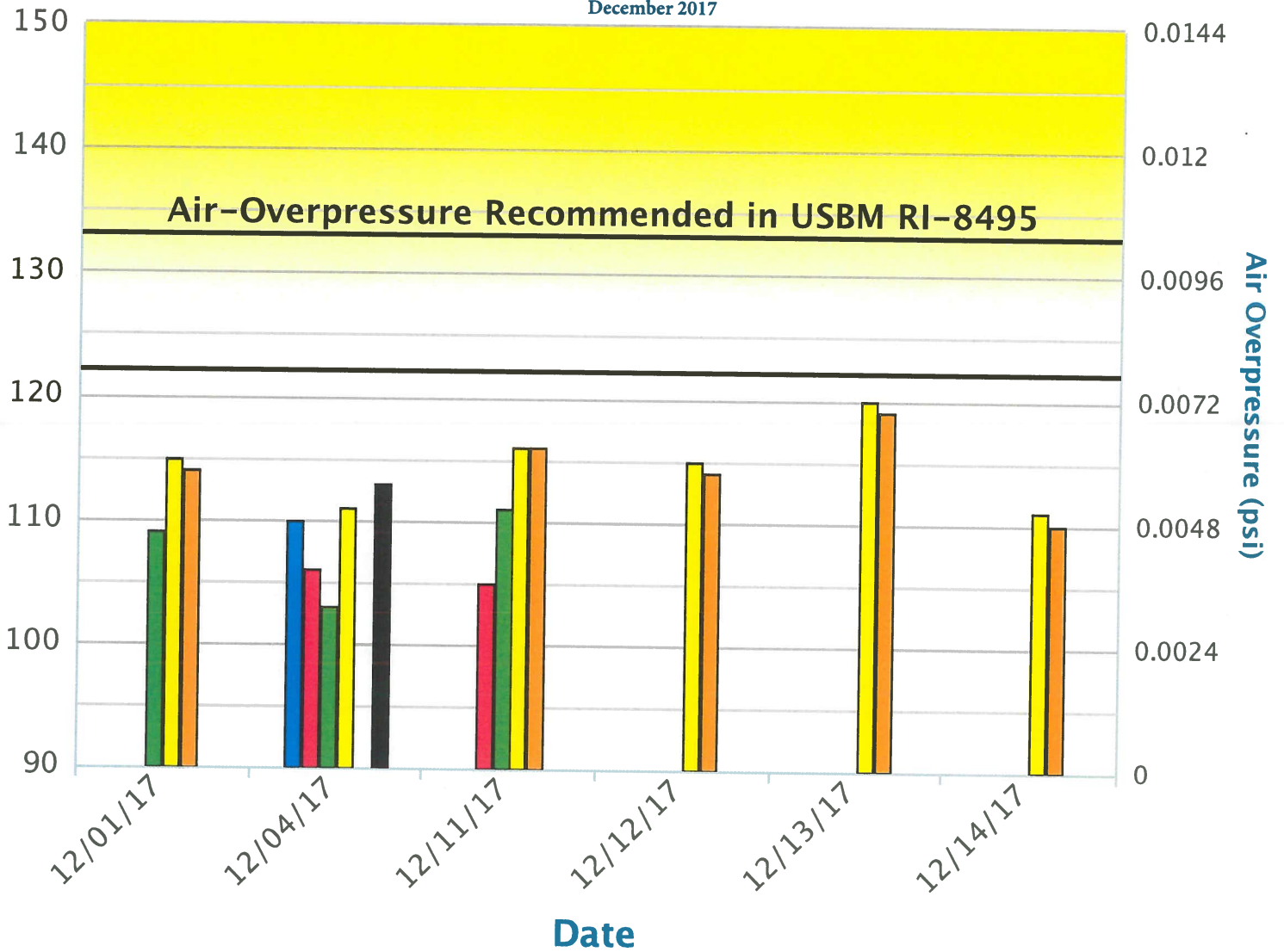
© 2017 Google

Google earth

1995

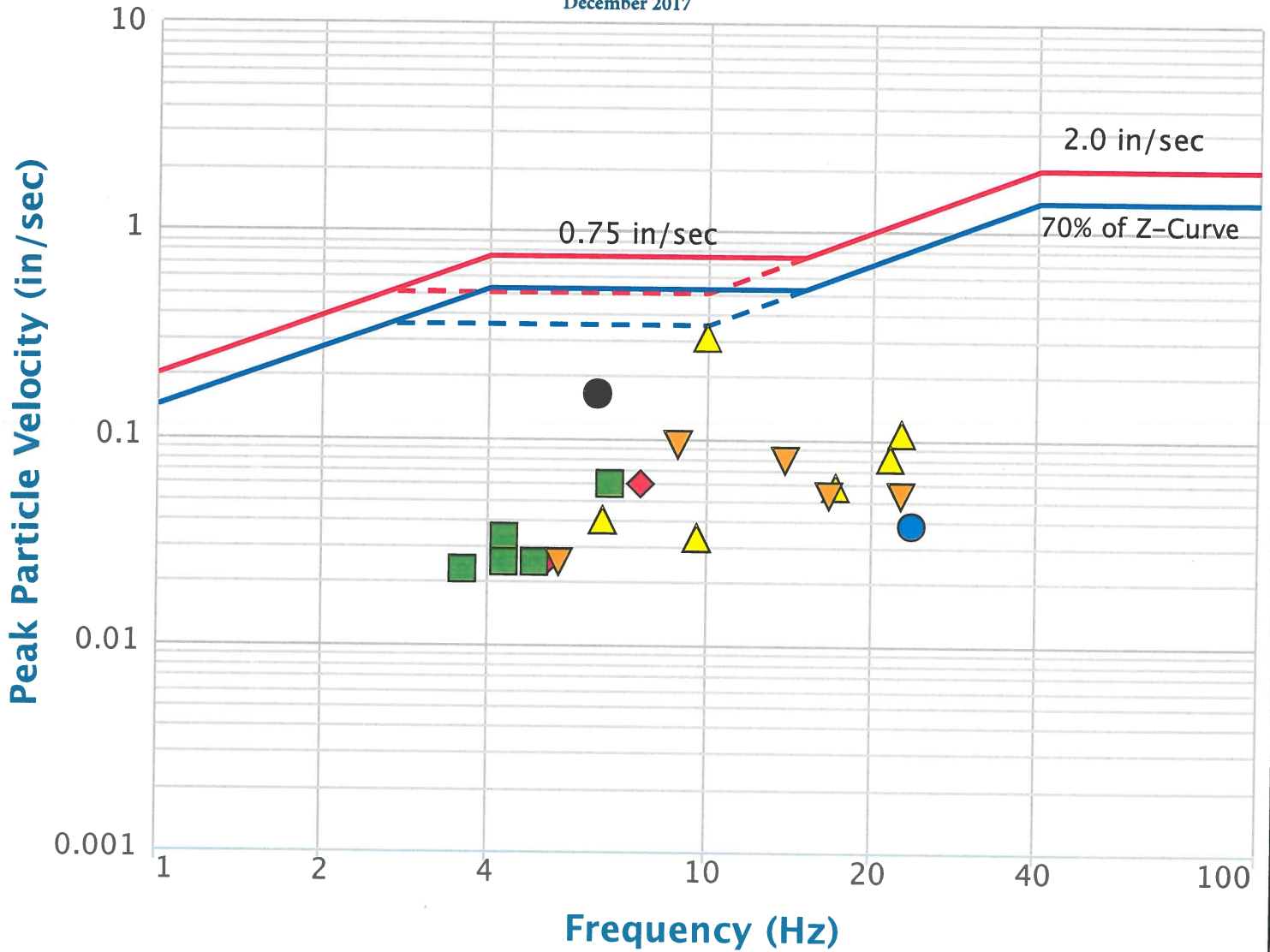
29°38'35.29" N 98°17'04.63" W elev 760 ft eye alt 14834 ft

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



■ Larrew Resident ■ Michels Residence ■ City Property Line ■ Warden Residence
■ Holly Residence ■ Warden Property Line

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



- Larrew Resident ◆ Michels Residence ■ City Property Line ▲ Warden Residence
- ▼ Holly Residence ● Warden Property Line

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
DECEMBER 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
12/01/17	12-01-2017 South Wall G	N 29° 38 5.4" W 098° 17' 1.0"	PT CLOUDY 80° S 6	12:00	0.093	8.9	114.0	832	392.00	2,439	Holly - 9916 Trophy Oaks
12/01/17	12-01-2017 South Wall G	N 29° 38 5.4" W 098° 17' 1.0"	PT CLOUDY 80° S 6	12:00	0.025	4.9	109.0	832	392.00	4,982	City Property Line
12/01/17	12-01-2017 South Wall G	N 29° 38 5.4" W 098° 17' 1.0"	PT CLOUDY 80° S 6	12:00	0.105	22.7	115.0	832	392.00	3,871	Warden - 21375 Gunther Grove
12/01/17	12-01-2017 South Wall G	N 29° 38 5.4" W 098° 17' 1.0"	PT CLOUDY 80° S 6	12:00	NT	NT	NT	832	392.00	8,383	Michels - 9118 Tuscan Hills
12/01/17	12-01-2017 South Wall G	N 29° 38 5.4" W 098° 17' 1.0"	PT CLOUDY 80° S 6	12:00	NT	NT	NT	832	392.00	9,377	Larrew
12/04/17	12-04-2017 Upper 3B	N 29° 38 40.8" W 098° 17' 39.3"	PT CLOUDY 80° S 8	14:14	0.060	6.7	103.0	728	102.00	2,249	City Property Line
12/04/17	12-04-2017 Upper 3B	N 29° 38 40.8" W 098° 17' 39.3"	PT CLOUDY 80° S 8	14:14	0.038	23.8	110.0	728	102.00	4,473	Larrew
12/04/17	12-04-2017 Upper 3B	N 29° 38 40.8" W 098° 17' 39.3"	PT CLOUDY 80° S 8	14:14	0.060	7.6	106.0	728	102.00	3,719	Michels - 9118 Tuscan Hills
12/04/17	12-04-2017 Upper 3B	N 29° 38 40.8" W 098° 17' 39.3"	PT CLOUDY 80° S 8	14:14	0.163	6.3	113.0	728	102.00	1,591	Warden Property Line
12/04/17	12-04-2017 Upper 3B	N 29° 38 40.8" W 098° 17' 39.3"	PT CLOUDY 80° S 8	14:14	0.305	10.0	111.0	728	102.00	1,805	Warden - 21375 Gunther Grove
12/11/17	12-11-2017 South Wall E	N 29° 38 9.6" W 098° 16' 50.7"	CLEAR 60° NW 7	13:47	0.078	13.9	116.0	798	1087.00	3,207	Holly - 9916 Trophy Oaks
12/11/17	12-11-2017 South Wall E	N 29° 38 9.6" W 098° 16' 50.7"	CLEAR 60° NW 7	13:47	0.080	21.7	116.0	798	1087.00	4,566	Warden - 21375 Gunther Grove
12/11/17	12-11-2017 South Wall E	N 29° 38 9.6" W 098° 16' 50.7"	CLEAR 60° NW 7	13:47	0.033	4.3	111.0	798	1087.00	5,744	City Property Line
12/11/17	12-11-2017 South Wall E	N 29° 38 9.6" W 098° 16' 50.7"	CLEAR 60° NW 7	13:47	0.025	5.1	105.0	798	1087.00	8,946	Michels - 9118 Tuscan Hills
12/11/17	12-11-2017 South Wall E	N 29° 38 9.6" W 098° 16' 50.7"	CLEAR 60° NW 7	13:47	NT	NT	NT	798	1087.00	9,806	Larrew

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
DECEMBER 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
12/12/17	12-12-2017 South Wall O	N 29° 38 18.3" W 098° 16' 36.6"	CLEAR 60° N 12	13:12	0.025	5.4	114.0	742	1050.00	4,395	Holly - 9916 Trophy Oaks
12/12/17	12-12-2017 South Wall O	N 29° 38 18.3" W 098° 16' 36.6"	CLEAR 60° N 12	13:12	0.033	9.6	115.0	742	1050.00	5,604	Warden - 21375 Gunther Grove
12/12/17	12-12-2017 South Wall O	N 29° 38 18.3" W 098° 16' 36.6"	CLEAR 60° N 12	13:12	NT	NT	NT	742	1050.00	9,687	Michels - 9118 Tuscan Hills
12/12/17	12-12-2017 South Wall O	N 29° 38 18.3" W 098° 16' 36.6"	CLEAR 60° N 12	13:12	NT	NT	NT	742	1050.00	10,340	Larrew
12/12/17	12-12-2017 South Wall O	N 29° 38 18.3" W 098° 16' 36.6"	CLEAR 60° N 12	13:12	NT	NT	NT	742	1050.00	6,829	City Property Line
12/13/17	12-13-2017 South Wall B	N 29° 38 12.0" W 098° 16' 42.0"	CLOUDY 58° N 11	12:45	0.053	16.7	119.0	909	1045.00	3,919	Holly - 9916 Trophy Oaks
12/13/17	12-13-2017 South Wall B	N 29° 38 12.0" W 098° 16' 42.0"	CLOUDY 58° N 11	12:45	0.040	6.5	120.0	909	1045.00	5,229	Warden - 21375 Gunther Grove
12/13/17	12-13-2017 South Wall B	N 29° 38 12.0" W 098° 16' 42.0"	CLOUDY 58° N 11	12:45	0.025	4.3	81.0	909	1045.00	6,430	City Property Line
12/13/17	12-13-2017 South Wall B	N 29° 38 12.0" W 098° 16' 42.0"	CLOUDY 58° N 11	12:45	NT	NT	NT	909	1045.00	10,272	Larrew
12/13/17	12-13-2017 South Wall B	N 29° 38 12.0" W 098° 16' 42.0"	CLOUDY 58° N 11	12:45	NT	NT	NT	909	1045.00	9,501	Michels - 9118 Tuscan Hills
12/14/17	12-14-2017 South Wall A	N 29° 38 10.4" W 098° 16' 36.7"	CLOUDY 60° SW 6	12:19	0.053	22.7	110.0	408	696.00	4,399	Holly - 9916 Trophy Oaks
12/14/17	12-14-2017 South Wall A	N 29° 38 10.4" W 098° 16' 36.7"	CLOUDY 60° SW 6	12:19	0.058	17.2	111.0	408	696.00	5,720	Warden - 21375 Gunther Grove
12/14/17	12-14-2017 South Wall A	N 29° 38 10.4" W 098° 16' 36.7"	CLOUDY 60° SW 6	12:19	0.023	3.6	76.0	408	696.00	6,918	City Property Line
12/14/17	12-14-2017 South Wall A	N 29° 38 10.4" W 098° 16' 36.7"	CLOUDY 60° SW 6	12:19	NT	NT	NT	408	696.00	10,750	Larrew
12/14/17	12-14-2017 South Wall A	N 29° 38 10.4" W 098° 16' 36.7"	CLOUDY 60° SW 6	12:19	NT	NT	NT	408	696.00	9,992	Michels - 9118 Tuscan Hills

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to Quarry Commission
2017-46Q	November	11/2/2017	2:13	11/2/2017	Jerry Mills	20302 Regency Run	210-744-5297	5	2	5000	No	A huge blast that shook the very foundation of our house. Very scary, not sure if we should take cover! Went straight to my heart.	11/2/2017
2017-47Q	November	11/2/2017	2:13	11/2/2017	Erika Rodriguez	9328 Blazing Star Trail		4	1.5	2800	No	(No description)	11/2/2017
2017-48Q	November	11/6/2017	1:30	11/6/2017	Maria Mills	20302 Regency Run	210-744-5297	5	2	5000	Yes	Blast-Whole house shook on foundation, windows rattled and light fixtures shook. Only getting worse. Gave it a "6".	11/7/2017
2017-49Q	November	11/9/2017		11/9/2017	Maria Mills	20302 Regency Run	210-744-5297	3	2	5000	No	Short quake from foundation on. No warning siren. Less than the earlier one from this week.	11/13/2017
2017-50Q	December	12/4/2017	2:14	12/4/2017	David Gordon	21340 Gunther Grove	830-708-3257	5	3	4000	Yes	Blast shook the hell out of my house today, it was crazy how much the house physically moved.	12/5/2017
2017-51Q	December	12/7/2017	12:30	12/7/2017	Erika Rodriguez	9328 [Blazing Star Trail]	830-542-2179	5	1.5	2900	No	Shaking of the home	12/7/2017

Adm Liaison

From: noreply@civicplus.com
Sent: Thursday, December 07, 2017 12:36 PM
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 12/7/2017

Phone Number: 8305422179

E-Mail Address erikatexasrealestate@gmail.com

Address1 9328 bl

Blast Date/Time: 12:30pm

Please describe the event. shaking of the home

How did this blast compare to other blasts? *Field not completed.*

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? watching tv

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.*

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

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Adm Liaison

From: noreply@civicplus.com
Sent: Monday, December 04, 2017 9:27 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	Gordon
Report Date	12/4/2017
Phone Number:	8307083257
E-Mail Address	dgordon.lng@gmail.com
Address1	21340 Gunther Grove
Blast Date/Time:	2:14pm/12/4
Please describe the event.	Blast shook the hell out of my house today, it was crazy how much the house physically moved!!
How did this blast compare to other blasts?	Bigger than normal.
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 in the bedroom
In what general direction does you house face? (N,E,S or W)	N
What is the approximate square footage of your home?	4000
Is your home a 1 story, 1 1/2 , or 2 story or large?	3 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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By filing this report, you consent to the public release of this information.

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Adm Liaison

From: noreply@civicplus.com
Sent: Thursday, November 09, 2017 1:28 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	11/9/2017
Phone Number:	210 7445297
E-Mail Address	Jerryrmills@hotmail.com
Address1	20302 Regency Run
Blast Date/Time:	9 November 2017 13:1
Please describe the event.	Short quake from foundation on . No warning siren.
How did this blast compare to other blasts?	Less that the earlier one from this week .
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?	Around the kitchen, on the phone.
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?	Two
Would you like a Quarry Commission member to contact you regarding	No

2017-490.

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: Monday, November 06, 2017 1:58 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	11/6/2017
Phone Number:	2107445297
E-Mail Address	<u>JERRYRMILL@HOTMAIL.COM</u>
Address1	20302 REGENCY RUN
Blast Date/Time:	11-6-17/1:30
Please describe the event.	BLAST- WHOLE HOUSE SHOOK ON FOUNDATION, WINDOWS RATTLED AND LIGHT FIXTURES SHOOK
How did this blast compare to other blasts?	ONLY GETTING WORSE GAVE IT A "6"
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?	HUASBAND IN KITCHEN AND WIFE AND CHILD IN BEDROOM
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	Yes

Commission member to
contact you regarding
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: Thursday, November 02, 2017 2:15 PM
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 11/2/2017

Phone Number: *Field not completed.*

E-Mail Address ERIKATEXASREALESTATE@GMAIL.COM

Address1 9328 BLAZING STAR TRL

Blast Date/Time: NOV 2 / 2:13PM

Please describe the event. *Field not completed.*

How did this blast compare to other blasts? *Field not completed.*

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 LAPTOP

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? 2800

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.*

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

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Adm Liaison

From: noreply@civicplus.com
Sent: Thursday, November 02, 2017 2:21 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 11/2/2017

Phone Number: 2107445297

E-Mail Address Jerryrmills@gmail.com

Address1 20302 Regency Run

Blast Date/Time: 2:13

Please describe the event. A huge blast that shook the very foundation of our house. Very scary, not sure if we should take cover! Went straight to my heart

How did this blast compare to other blasts? Short but powerful. No warning we could hear

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? Eating lunch

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

What is the approximate square footage of your home? 5,000

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.*

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