



City of Garden Ridge

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

AGENDA QUARRY COMMISSION REGULAR MEETING MONDAY, NOVEMBER 9, 2020, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, November 9, 2020, 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 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 to the City Secretary 48 hours prior to this meeting.

1. Call to Order

2. Roll Call

3. Pledge of Allegiance

4. Citizen Comment Period – limited to 30 minutes total

Rules for Citizens' Participation: The Commission welcomes citizen participation and comments at all Commission Meetings. The Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. If you speak, you must follow these guidelines:

a) Respect and courtesy:

1. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
2. Show the Commission the same respect that you would like to be shown.
3. End your speaking at the time allotted below.

b) Speaking:

1. First citizen comment period.
 - i. You are required to sign up to speak and you are limited to one 3-minute period.
2. Second citizen comment period.
 - i. You are not required to sign up and you are limited to one 2-minute period.
3. State your name and address before your comments begin.
4. You are only allowed to speak once per topic, 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 following items are for discussion, consideration, and action.

a) Approvals

1. Approval of Minutes for September 14, 2020, Quarry Commission Regular Meeting.

b) Discussions/Reports/Updates

1. Monthly Hanson Quarry blasting analysis data reported by Vibratech and recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.
2. Review individual citizen blast reports received during reported month/s.
3. Location, placement, and number of monitors and other matters related to monitoring of blasts, including placement of roving monitor.

4. Items applicable to the Quarry Commission discussed at the October and November City Council Meetings.

5. Update on Grapevine articles.

c) Recommendations

1. Ordinance No. 210-022018 An Ordinance of the City Council of the City of Garden Ridge adopting board and commission policy and procedures; providing that this Ordinance shall be cumulative of all Ordinances; providing a severability clause; providing a savings clause; and providing an effective date.
 - i. Interview possible candidates for Quarry Commission, Place 7 vacancy (term expiring September 30, 2022).
 - ii. Make recommendation to City Council for appointment of commissioner.
 - iii. Receive recommendations and consideration of appointment of Quarry Commission Chair and Vice-Chair for a one-year term effective November 2020.
 - iv. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.

d) Education/Training

1. Discuss “Blasting Educational Materials” with Vibratech, Hanson representatives, blasting contractors, and the public.
2. Discuss future education/training sessions.

e) Future Agenda Items

1. Commissioners input on agenda items.
2. Announce the date, time, and location for next meeting (January 11, 2020, at 6:00 p.m. at City Hall).

6. **Citizen Comment Period** – limited to 20 minutes total
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 Commission may vote or act upon any item within this agenda.

Attendance by Other Elected or Appointed Officials: It is anticipated that members of the City Council, other city boards, commissions, and/or committees may attend the meeting in numbers that may constitute a quorum of the City Council, 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 City Council, 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.

This is to certify that I, Kat Balbi, posted this Agenda at 2:00 p.m. on November 3, 2020, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Kat Balbi
Assistant City Secretary



MINUTES
QUARRY COMMISSION REGULAR MEETING
MONDAY, SEPTEMBER 14, 2020, 6:00 P.M.

Commissioners Present:

Chair Johnell Holly
Vice-Chair Jerry Barucky
Commissioner Wayne Mudge
Commissioner Mike Shands
Commissioner Albert Haddad
Commissioner Armando Diaz
Councilmember Bryan Lantzy, Ex-officio

Commissioners Absent:

Vacant Position

City Staff Present:

Nancy Cain, City Administrator
Kat Balbi, Assistant City Secretary

1. Call to Order

With a quorum of the Quarry Commissioners present, Chair Holly called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, September 14, 2020, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas, 78266.

2. Roll Call: See above.

3. Pledge of Allegiance: Chair Holly led the Pledge of Allegiance.

4. Citizen Comment Period: No one signed up to speak.

5. Business Items

The following items are for discussion, consideration and/or action.

a) Approvals

1. Approval of Minutes for March 9, 2020, Quarry Commission Regular Meeting.

Motion: A motion was made by Commissioner Shands, seconded by Commissioner Mudge, to approve the March 9, 2020, Quarry Commission Regular Meeting Minutes. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

b) Discussions/Reports/Updates

1. 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 Reittinger, Vibra-Tech, presented and discussed the January blast analysis. He stated that 11 shots occurred during the month of January and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.078 occurred on January 23rd at the Holly Residence and the highest Air Overpressure of 114 dB occurred on January 7th at the Holly Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the February blast analysis. He stated that 11 shots occurred during the month of February and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.145 occurred on February 25th at the Warden Residence and the highest Air

Overpressure of 111 dB occurred on February 18th at the Holly Residence and on February 28th at the Warden Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the March blast analysis. He stated that 15 shots occurred during the month of March and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.215 occurred on March 18th at the Holly Residence and the highest Air Overpressure of 116 dB occurred on March 6th and the 17th at the Holly Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the April blast analysis. He stated that 16 shots occurred during the month of April and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.2 occurred on April 7th at the Holly Residence and the highest Air Overpressure of 112 dB occurred on April 16th at the City Property Line.

Nicholas Reittinger, Vibra-Tech, presented and discussed the May blast analysis. He stated that 13 shots occurred during the month of May and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.185 occurred on May 1st at the Warden Residence and on May 27th at the Holly Residence. He reported the highest Air Overpressure of 113 dB occurred on May 18th at the Warden Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the June blast analysis. He stated that 11 shots occurred during the month of June and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.173 occurred on June 5th at the Warden Residence and the highest Air Overpressure of 120 dB occurred on June 22nd at the Warden Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the July blast analysis. He stated that 10 shots occurred during the month of July and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.175 occurred on July 20th at the Warden Residence and the highest Air Overpressure of 120 dB occurred on July 20th at the Warden Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the August blast analysis. He stated that 11 shots occurred during the month of August and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.148 occurred on August 26th at the Warden Residence and the highest Air Overpressure of 119 dB occurred on August 5th at the Warden Residence.

Councilmember Lantzy spoke regarding truck traffic near the Quarry and Pat Pieton, Lehigh Hanson, addressed questions regarding truck traffic.

2. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commissioner contact with citizen/s, as necessary.

Nicholas Reittinger, Vibra-Tech, spoke regarding the 52 citizen blast reports received from March through August. He answered questions from the Commission and stated the siren horn at Hanson Quarry did not work for several months. Pat Pieton, Lehigh Hanson, stated the siren horn has been replaced with a siren whistle, which goes off 30 seconds before the blast and goes off 3 times for an all clear.

3. 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 placement of roving monitor which is currently at the Baker residence.

The Commission discussed moving the roving monitor to places recommended by Vibra-Tech. The Commission agreed to leave the roving monitor at the Baker residence. Nicholas Reittinger, Vibra-Tech, spoke regarding possible locations for the roving monitor. Nancy Cain, City Administrator, stated the Commission may agree by consensus for relocation of the roving monitor without requiring a meeting.

The Commission agreed by consensus for the City Administrator to contact Vibra-Tech with a new location for the roving monitor provided by the Chair.

4. Items applicable to the Quarry Commission discussed at the May, June, July, August, and September City Council Regular Meetings.

Chair Holly provided the Commission with an update on the items discussed at the May, June, July, August, and September City Council Regular Meetings.

5. Update on Grapevine articles.

The Commission had none at this time.

c) Recommendations

1. Request from Buckley Powder Co., for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2020-September 30, 2021.

i. Review request and make recommendation to City Council.

Nancy Cain, City Administrator, presented the Partial Exemption Permit submitted by Buckley Powder Co.

Motion: A motion was made by Commissioner Mudge, seconded by Vice-Chair Barucky, to recommend to City Council to approve the request from Buckley Powder Co., for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2020 to September 30, 2021. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

2. Ordinance No. 210-022018 An Ordinance of the City Council of the City of Garden Ridge adopting board and commission policy and procedures; providing that this Ordinance shall be cumulative of all Ordinances; providing a severability clause; providing a savings clause; and providing an effective date.

i. Update on former Commissioner DuBois's resignation.

Nancy Cain, City Administrator, updated the Commission on former Commissioner DuBois's resignation.

ii. Interview possible candidates for the Quarry Commission Place 7 vacancy (term expiring September 30, 2022).

iii. Make recommendation to City Council for appointment of Commissioner.

Chair Holly stated the candidate slated to be interviewed could not attend the meeting due to a family emergency.

iv. Discuss expiring terms (September 30, 2020) of Commissioner Holly and Commissioner Barucky.

The Commission reviewed the expiring terms of Commissioner Holly and Commissioner Barucky. Commissioner Holly and Barucky indicated they both wish to continue to serve the City on the Commission. The Commission discussed the Terms of Office detailed in Ordinance No. 210 as it relates to Commissioner Holly. Nancy Cain, City Administrator, spoke regarding the possible good cause exception in Ordinance No. 210 to extend Commissioner Holly's term.

v. Make recommendation to City Council.

Motion: A motion was made by Vice-Chair Barucky, seconded by Commissioner Shands, to recommend to City Council the reappointment of Commissioner Holly to serve an additional two (2) year term on the Quarry Commission with term expiring September 30, 2022, for good cause exception provided for in Ordinance No. 210 due to lack of candidates. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

Motion: A motion was made by Commissioner Mudge, seconded by Commissioner Haddad, to recommend to City Council the reappointment of Commissioner Barucky to serve an additional two (2) year term on the Quarry Commission with term expiring September 30, 2022. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

vi. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.

Commissioner Haddad spoke regarding submitting his resignation. Nancy Cain, City Administrator, stated City Council agreed by consensus to waive the requirement of Commissioners attending at least two (2) City Council regular meetings during each calendar year during the COVID-19 health emergency.

d) Education/Training

1. Discuss “Blasting Educational Materials” with Vibratech, Hanson representatives, blasting contractors, and the public.

Nicholas Reitinger, Vibra-Tech, presented an updated “Blasting Education Materials” and answered questions from the Commission.

2. Discuss future education/training sessions.

Pat Pieton, Lehigh Hanson, spoke regarding various outreach techniques for residents and answered questions from the Commission. He requested a secondary method of contact to City Hall for blast warnings.

e) Future Agenda Items

1. Commissioners input for items on upcoming agendas.

Chair Holly requested the interview for the Quarry Commission Place 7 vacancy (term expiring September 30, 2022).

2. Announcement of next Quarry Commission Regular Meeting.

Chair Holly announced the next Quarry Commission Regular Meeting will be held on Monday, November 9, 2020, at 6:00 p.m. at City Hall.

6. Citizen Comment Period: No one wished to speak.

7. Adjournment

Motion: A motion was made by Vice-Chair Barucky, seconded by Commissioner Mudge, to adjourn. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, September 14, 2020, Quarry Commission Regular Meeting was adjourned at 7:58 p.m. by Chair Holly.

ATTEST:

Johnell Holly
Chair

Kat Balbi
Assistant City Secretary



October 6, 2020

Mr. Johnell Holly
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. Holly,

Enclosed is the analysis for the blasting conducted during the month of September 2020 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2020 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel conducted seismic monitoring at various locations for all blasting activities.

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, Johnell Holly at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

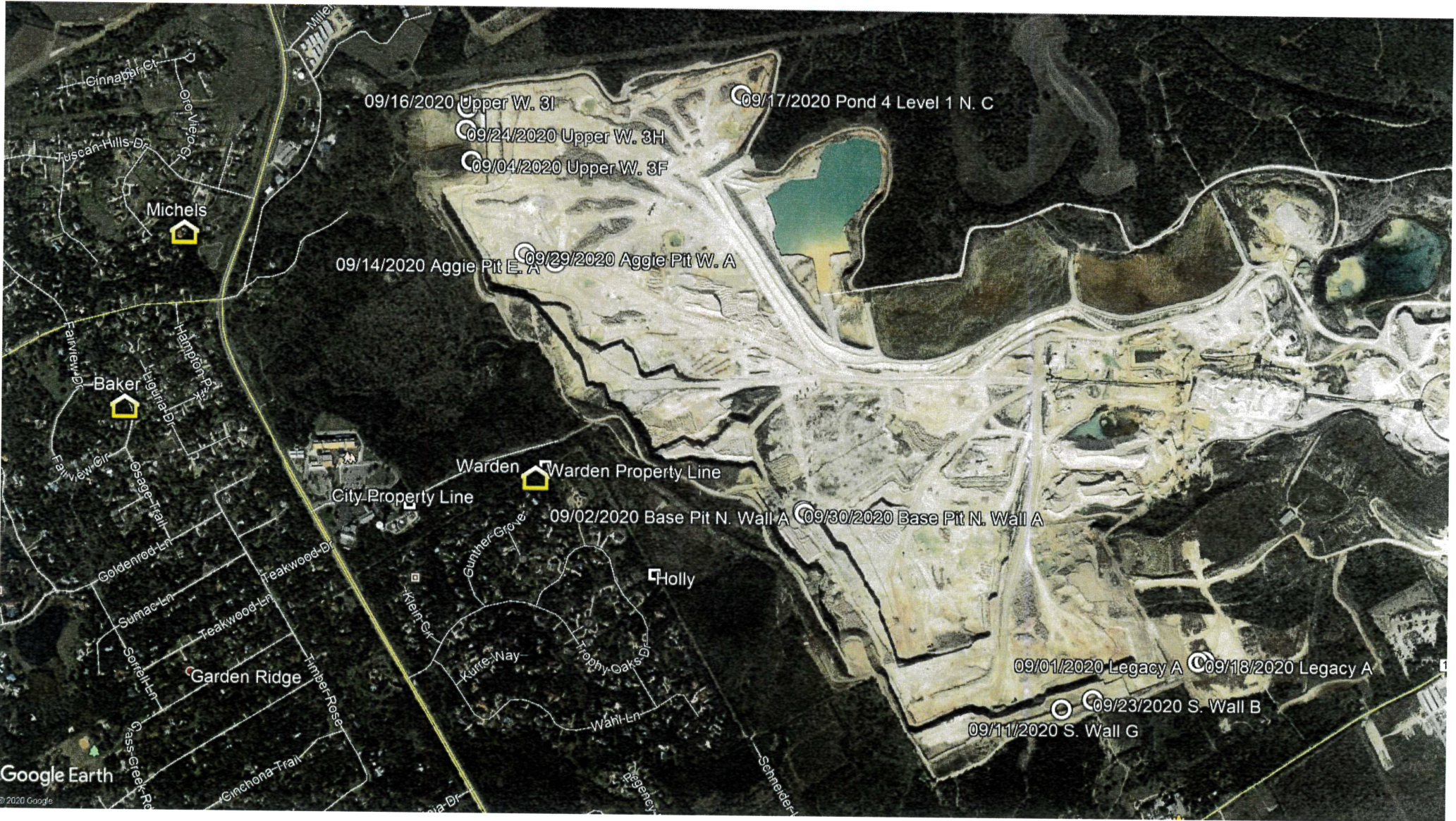
Respectfully submitted,

VIBRA-TECH, INC.



Nicholas Reitinger
Area Manager

cc: Patrick Pieton, Hanson – Servtex



09/16/2020 Upper W. 3I

09/17/2020 Pond 4 Level 1 N. C

09/24/2020 Upper W. 3H

09/04/2020 Upper W. 3F

09/14/2020 Aggie Pit E. A

09/29/2020 Aggie Pit W. A

City Property Line

Warden Property Line

09/02/2020 Base Pit N. Wall A

09/30/2020 Base Pit N. Wall A

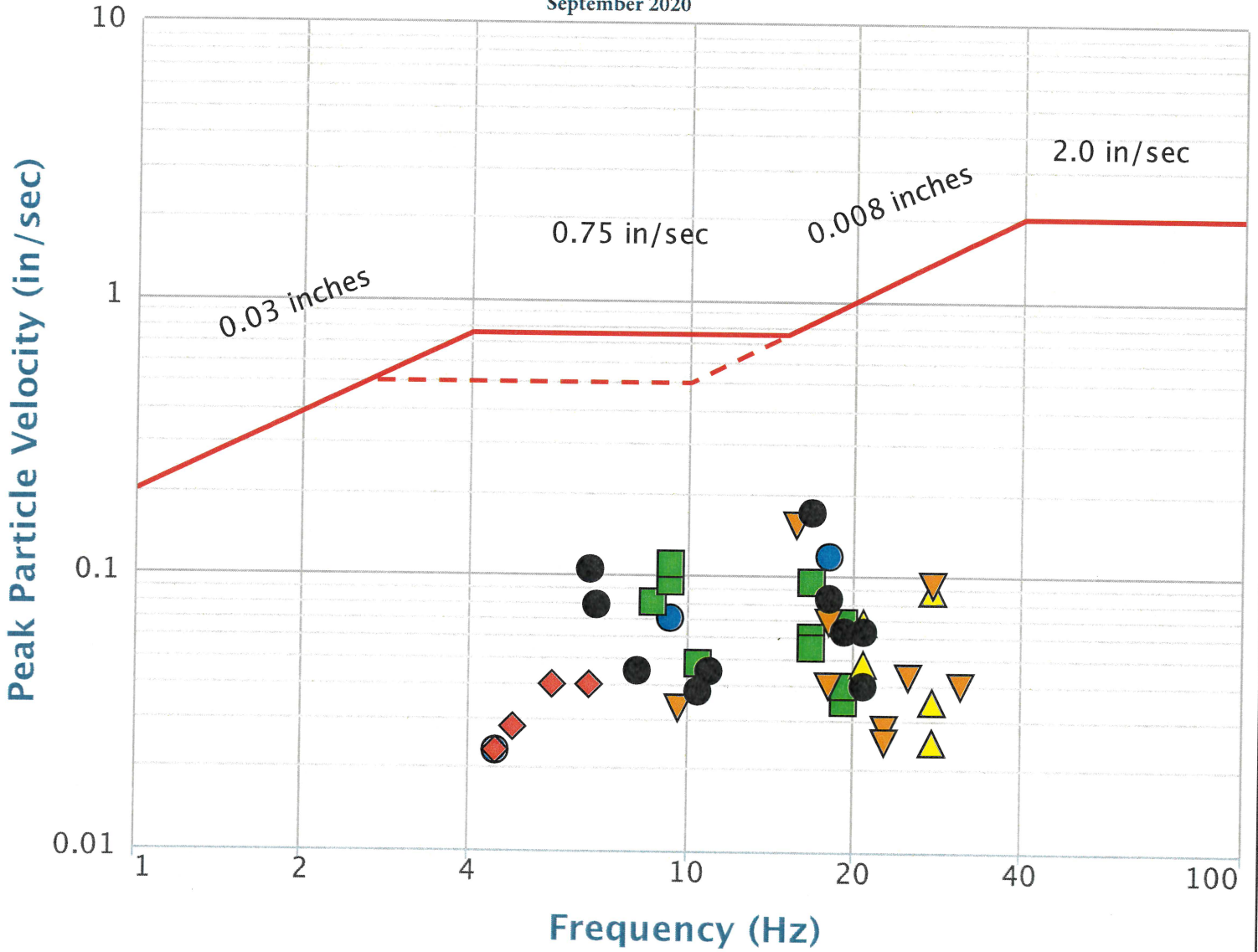
09/01/2020 Legacy A

09/18/2020 Legacy A

09/23/2020 S. Wall B

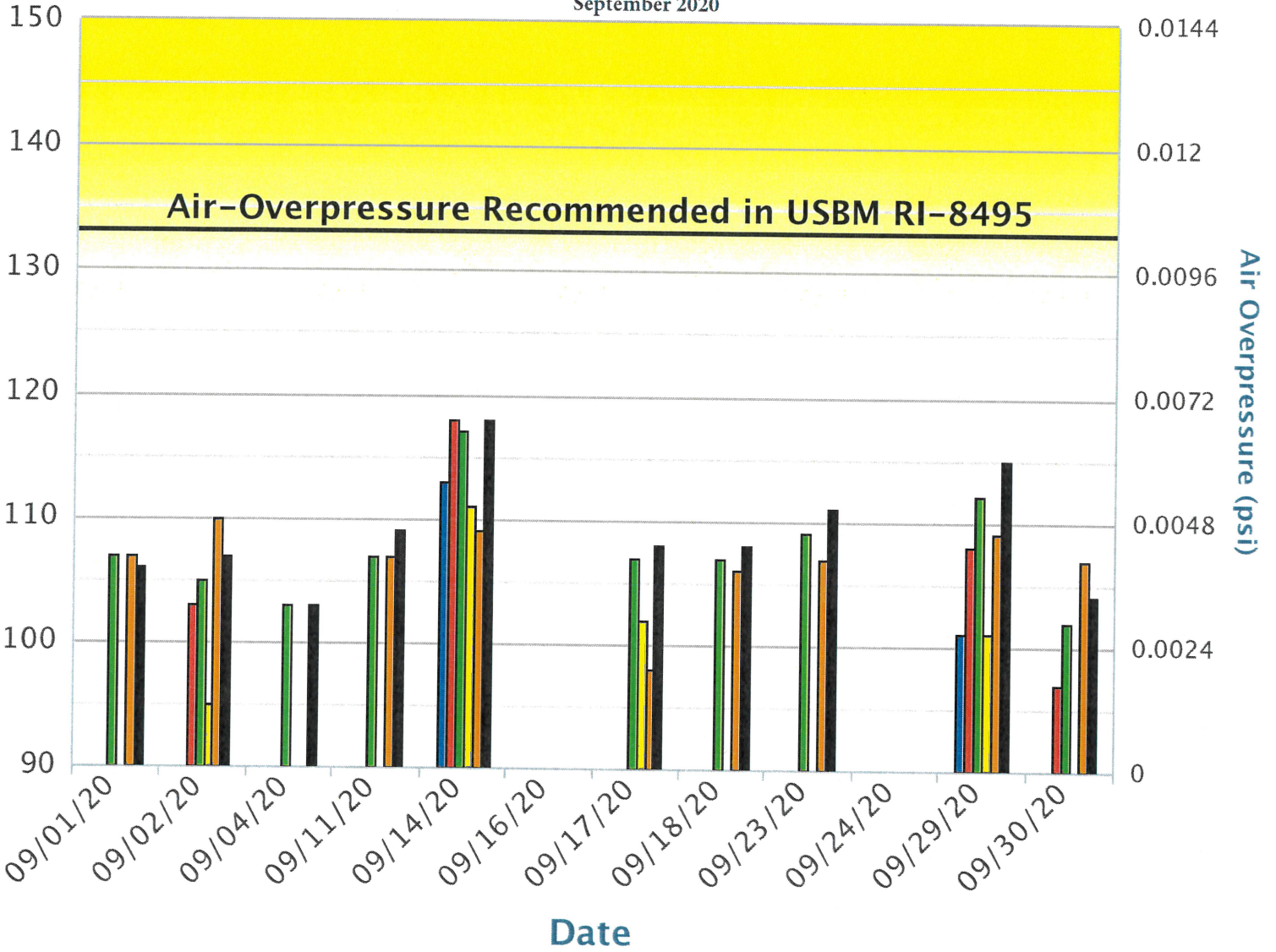
09/11/2020 S. Wall G

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 USBM Graph
 September 2020



- Michels Residence ◆ City Property Line ■ Warden Residence ▲ Baker Residence
- ▼ Holly Residence ● Warden Prop Line

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 September 2020



- Michels Residence
- City Property Line
- Warden Residence
- Baker Residence
- Holly Residence
- Warden Prop Line

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2020**

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
09/01/20	09/01/2020 Legacy A	N 29° 38' 6.56" W 098° 16' 24.12"	CLOUDY 95° S 10	13:24	NT	NT	NT	1270	667.00	11,024	Baker Residence
09/01/20	09/01/2020 Legacy A	N 29° 38' 6.56" W 098° 16' 24.12"	CLOUDY 95° S 10	13:24	NT	NT	NT	1270	667.00	8,070	City Property Line
09/01/20	09/01/2020 Legacy A	N 29° 38' 6.56" W 098° 16' 24.12"	CLOUDY 95° S 10	13:24	0.028	22.7	107	1270	667.00	5,549	Holly - 9916 Trophy Oaks
09/01/20	09/01/2020 Legacy A	N 29° 38' 6.56" W 098° 16' 24.12"	CLOUDY 95° S 10	13:24	NT	NT	NT	1270	667.00	10,998	Michels - 9118 Tuscan Hills
09/01/20	09/01/2020 Legacy A	N 29° 38' 6.56" W 098° 16' 24.12"	CLOUDY 95° S 10	13:24	0.035	19.2	107	1270	667.00	6,888	Warden - 21375 Gunther Grove
09/02/20	09/02/2020 Base Pit N. Wall A	N 29° 38' 21.12" W 098° 17' 9.33"	CLOUDY 92° SE 13	13:21	0.035	27.8	95	1112	259.00	6,845	Baker Residence
09/02/20	09/02/2020 Base Pit N. Wall A	N 29° 38' 21.12" W 098° 17' 9.33"	CLOUDY 92° SE 13	13:21	0.028	4.8	103	1112	259.00	3,935	City Property Line
09/02/20	09/02/2020 Base Pit N. Wall A	N 29° 38' 21.12" W 098° 17' 9.33"	CLOUDY 92° SE 13	13:21	0.093	27.8	110	1112	259.00	1,621	Holly - 9916 Trophy Oaks
09/02/20	09/02/2020 Base Pit N. Wall A	N 29° 38' 21.12" W 098° 17' 9.33"	CLOUDY 92° SE 13	13:21	NT	NT	NT	1112	259.00	6,754	Michels - 9118 Tuscan Hills
09/02/20	09/02/2020 Base Pit N. Wall A	N 29° 38' 21.12" W 098° 17' 9.33"	CLOUDY 92° SE 13	13:21	0.08	8.6	105	1112	259.00	2,708	Warden - 21375 Gunther Grove
09/04/20	09/04/2020 Upper W. 3F	N 29° 38' 56.14" W 098° 17' 47.85"	CLOUDY 87° NE 7	13:17	NT	NT	NT	1522	97.00	4,331	Baker Residence
09/04/20	09/04/2020 Upper W. 3F	N 29° 38' 56.14" W 098° 17' 47.85"	CLOUDY 87° NE 7	13:17	NT	NT	NT	1522	97.00	3,502	City Property Line
09/04/20	09/04/2020 Upper W. 3F	N 29° 38' 56.14" W 098° 17' 47.85"	CLOUDY 87° NE 7	13:17	NT	NT	NT	1522	97.00	2,979	Michels - 9118 Tuscan Hills
09/04/20	09/04/2020 Upper W. 3F	N 29° 38' 56.14" W 098° 17' 47.85"	CLOUDY 87° NE 7	13:17	0.048	10.4	103	1522	97.00	3,429	Warden - 21375 Gunther Grove
09/04/20	09/04/2020 Upper W. 3F	N 29° 38' 56.14" W 098° 17' 47.85"	CLOUDY 87° NE 7	13:17	0.045	8.1	103	1522	97.00	3,175	Warden Property Line
09/11/20	09/11/2020 S. Wall G	N 29° 38' 1.74" W 098° 16' 39.76"	SUNNY 87° NE 11	13:20	NT	NT	NT	1262	791.00	9,812	Baker Residence

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2020**

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
09/11/20	09/11/2020 S. Wall G	N 29° 38' 1.74" W 098° 16' 39.76"	SUNNY 87° NE 11	13:20	NT	NT	NT	1262	791.00	6,854	City Property Line
09/11/20	09/11/2020 S. Wall G	N 29° 38' 1.74" W 098° 16' 39.76"	SUNNY 87° NE 11	13:20	0.04	17.9	107	1262	791.00	4,321	Holly - 9916 Trophy Oaks
09/11/20	09/11/2020 S. Wall G	N 29° 38' 1.74" W 098° 16' 39.76"	SUNNY 87° NE 11	13:20	NT	NT	NT	1262	791.00	9,949	Michels - 9118 Tuscan Hills
09/11/20	09/11/2020 S. Wall G	N 29° 38' 1.74" W 098° 16' 39.76"	SUNNY 87° NE 11	13:20	0.06	16.7	107	1262	791.00	5,727	Warden - 21375 Gunther Grove
09/14/20	09/14/2020 Aggie Pit E. A	N 29° 38' 46.17" W 098° 17' 38.29"	SUNNY 86° NE 21	13:29	0.068	20.8	111	1238	678.00	4,559	Baker Residence
09/14/20	09/14/2020 Aggie Pit E. A	N 29° 38' 46.17" W 098° 17' 38.29"	SUNNY 86° NE 21	13:29	0.04	6.6	118	1238	678.00	2,813	City Property Line
09/14/20	09/14/2020 Aggie Pit E. A	N 29° 38' 46.17" W 098° 17' 38.29"	SUNNY 86° NE 21	13:29	0.07	9.3	113	1238	678.00	3,674	Michels - 9118 Tuscan Hills
09/14/20	09/14/2020 Aggie Pit E. A	N 29° 38' 46.17" W 098° 17' 38.29"	SUNNY 86° NE 21	13:29	0.095	9.3	117	1238	678.00	2,653	Warden - 21375 Gunther Grove
09/14/20	09/14/2020 Aggie Pit E. A	N 29° 38' 46.17" W 098° 17' 38.29"	SUNNY 86° NE 21	13:29	0.17	16.7	118	1238	678.00	2,064	Warden Property Line
09/16/20	09/16/2020 Upper W. 3I	N 29° 39' 1.45" W 098° 17' 48.37"	SUNNY 92° N 7	14:40	NT	NT	NT	1012	60.00	4,650	Baker Residence
09/16/20	09/16/2020 Upper W. 3I	N 29° 39' 1.45" W 098° 17' 48.37"	SUNNY 92° N 7	14:40	NT	NT	NT	1012	60.00	4,028	City Property Line
09/16/20	09/16/2020 Upper W. 3I	N 29° 39' 1.45" W 098° 17' 48.37"	SUNNY 92° N 7	14:40	NT	NT	NT	1012	60.00	3,147	Michels - 9118 Tuscan Hills
09/16/20	09/16/2020 Upper W. 3I	N 29° 39' 1.45" W 098° 17' 48.37"	SUNNY 92° N 7	14:40	NT	NT	NT	1012	60.00	3,966	Warden - 21375 Gunther Grove
09/16/20	09/16/2020 Upper W. 3I	N 29° 39' 1.45" W 098° 17' 48.37"	SUNNY 92° N 7	14:40	NT	NT	NT	1012	60.00	3,708	Warden Property Line
09/17/20	09/17/2020 Pond 4 Level 1 N. C	N 29° 39' 3.29" W 098° 17' 17.13"	OVERCAST 86° N 9	11:22	0.025	27.8	102	1256	506.00	6,991	Baker Residence
09/17/20	09/17/2020 Pond 4 Level 1 N. C	N 29° 39' 3.29" W 098° 17' 17.13"	OVERCAST 86° N 9	11:22	NT	NT	NT	1256	506.00	5,296	City Property Line

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2020**

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
09/17/20	09/17/2020 Pond 4 Level 1 N. C	N 29° 39' 3.29" W 098° 17' 17.13"	OVERCAST 86° N 9	11:22	NT	NT	NT	1256	506.00	5,778	Michels - 9118 Tuscan Hills
09/17/20	09/17/2020 Pond 4 Level 1 N. C	N 29° 39' 3.29" W 098° 17' 17.13"	OVERCAST 86° N 9	11:22	0.068	19.2	107	1256	506.00	4,553	Warden - 21375 Gunther Grove
09/17/20	09/17/2020 Pond 4 Level 1 N. C	N 29° 39' 3.29" W 098° 17' 17.13"	OVERCAST 86° N 9	11:22	0.045	10.9	108	1256	506.00	4,252	Warden Property Line
09/18/20	09/18/2020 Legacy A	N 29° 38' 6.67" W 098° 16' 23.39"	PARTLY CLOUDY 86° NE 13	13:13	NT	NT	NT	1270	597.00	11,084	Baker Residence
09/18/20	09/18/2020 Legacy A	N 29° 38' 6.67" W 098° 16' 23.39"	PARTLY CLOUDY 86° NE 13	13:13	NT	NT	NT	1270	597.00	8,131	City Property Line
09/18/20	09/18/2020 Legacy A	N 29° 38' 6.67" W 098° 16' 23.39"	PARTLY CLOUDY 86° NE 13	13:13	0.025	22.7	106	1270	597.00	5,611	Holly - 9916 Trophy Oaks
09/18/20	09/18/2020 Legacy A	N 29° 38' 6.67" W 098° 16' 23.39"	PARTLY CLOUDY 86° NE 13	13:13	NT	NT	NT	1270	597.00	11,054	Michels - 9118 Tuscan Hills
09/18/20	09/18/2020 Legacy A	N 29° 38' 6.67" W 098° 16' 23.39"	PARTLY CLOUDY 86° NE 13	13:13	0.04	19.2	107	1270	597.00	6,948	Warden - 21375 Gunther Grove
09/23/20	09/23/2020 S. Wall B	N 29° 38' 2.69" W 098° 16' 36.18"	CLOUDY 83° N 13	13:14	NT	NT	NT	1050	860.00	10,087	Baker Residence
09/23/20	09/23/2020 S. Wall B	N 29° 38' 2.69" W 098° 16' 36.18"	CLOUDY 83° N 13	13:14	NT	NT	NT	1050	860.00	7,128	City Property Line
09/23/20	09/23/2020 S. Wall B	N 29° 38' 2.69" W 098° 16' 36.18"	CLOUDY 83° N 13	13:14	0.043	25	107	1050	860.00	4,594	Holly - 9916 Trophy Oaks
09/23/20	09/23/2020 S. Wall B	N 29° 38' 2.69" W 098° 16' 36.18"	CLOUDY 83° N 13	13:14	NT	NT	NT	1050	860.00	10,187	Michels - 9118 Tuscan Hills
09/23/20	09/23/2020 S. Wall B	N 29° 38' 2.69" W 098° 16' 36.18"	CLOUDY 83° N 13	13:14	0.055	16.7	109	1050	860.00	5,986	Warden - 21375 Gunther Grove
09/24/20	09/24/2020 Upper W. 3H	N 29° 38' 59.28" W 098° 17' 48.48"	SUNNY 77° NW 7	13:24	NT	NT	NT	1012	59.00	4,494	Baker Residence
09/24/20	09/24/2020 Upper W. 3H	N 29° 38' 59.28" W 098° 17' 48.48"	SUNNY 77° NW 7	13:24	NT	NT	NT	1012	59.00	3,809	City Property Line
09/24/20	09/24/2020 Upper W. 3H	N 29° 38' 59.28" W 098° 17' 48.48"	SUNNY 77° NW 7	13:24	NT	NT	NT	1012	59.00	3,042	Michels - 9118 Tuscan Hills

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2020**

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
09/24/20	09/24/2020 Upper W. 3H	N 29° 38' 59.28" W 098° 17' 48.48"	SUNNY 77° NW 7	13:24	NT	NT	NT	1012	59.00	3,752	Warden - 21375 Gunther Grove
09/24/20	09/24/2020 Upper W. 3H	N 29° 38' 59.28" W 098° 17' 48.48"	SUNNY 77° NW 7	13:24	NT	NT	NT	1012	59.00	3,497	Warden Property Line
09/29/20	09/29/2020 Aggie Pit W. A	N 29° 38' 46.94" W 098° 17' 41.67"	SUNNY 82° NW 8	13:50	0.088	27.8	101	1008	648.00	4,314	Baker Residence
09/29/20	09/29/2020 Aggie Pit W. A	N 29° 38' 46.94" W 098° 17' 41.67"	SUNNY 82° NW 8	13:50	0.04	5.7	108	1008	648.00	2,751	City Property Line
09/29/20	09/29/2020 Aggie Pit W. A	N 29° 38' 46.94" W 098° 17' 41.67"	SUNNY 82° NW 8	13:50	0.118	17.9	101	1008	648.00	3,376	Michels - 9118 Tuscan Hills
09/29/20	09/29/2020 Aggie Pit W. A	N 29° 38' 46.94" W 098° 17' 41.67"	SUNNY 82° NW 8	13:50	0.11	9.3	112	1008	648.00	2,430	Warden - 21375 Gunther Grove
09/29/20	09/29/2020 Aggie Pit W. A	N 29° 38' 46.94" W 098° 17' 41.67"	SUNNY 82° NW 8	13:50	0.105	6.6	115	1008	648.00	2,156	Warden Property Line
09/30/20	09/30/2020 Base Pit N. Wall A	N 29° 38' 21.34" W 098° 17' 9.46"	SUNNY 82° SW 8	13:34	0.048	20.8	89	1016	222.00	6,831	Baker Residence
09/30/20	09/30/2020 Base Pit N. Wall A	N 29° 38' 21.34" W 098° 17' 9.46"	SUNNY 82° SW 8	13:34	0.023	4.5	97	1016	222.00	3,924	City Property Line
09/30/20	09/30/2020 Base Pit N. Wall A	N 29° 38' 21.34" W 098° 17' 9.46"	SUNNY 82° SW 8	13:34	0.153	15.6	107	1016	222.00	1,619	Holly - 9916 Trophy Oaks
09/30/20	09/30/2020 Base Pit N. Wall A	N 29° 38' 21.34" W 098° 17' 9.46"	SUNNY 82° SW 8	13:34	0.023	4.5	87	1016	222.00	6,735	Michels - 9118 Tuscan Hills
09/30/20	09/30/2020 Base Pit N. Wall A	N 29° 38' 21.34" W 098° 17' 9.46"	SUNNY 82° SW 8	13:34	0.095	16.7	102	1016	222.00	2,695	Warden - 21375 Gunther Grove

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



November 4, 2020

VibraTechinc.com

Mr. Johnell Holly
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. Holly,

Enclosed is the analysis for the blasting conducted during the month of October 2020 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2020 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel conducted seismic monitoring at various locations for all blasting activities.

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, Johnell Holly at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.



Vibra-Tech

VibraTechinc.com

Respectfully submitted,

VIBRA-TECH, INC.

Nicholas Reitinger
Area Manager

cc: Patrick Pieton, Hanson – Servtex



10/23/2020 Pond 4 Level 1 N. A

10/09/2020 Pond 4 Level 1 N. A

10/01/2020 Pond 4 Level 1 N. A

10/19/2020 Upper W. 3G

10/20/2020 Aggie Pit N. B

10/30/2020 Aggie Pit N. A

10/07/2020 Aggie Pit E. A

10/14/2020 Base Pit N. A

10/13/2020 Legacy N. A

10/06/2020 Base Pit E. B

Michels

Baker

Warden Property Line

City Property Line

Warden

Holly

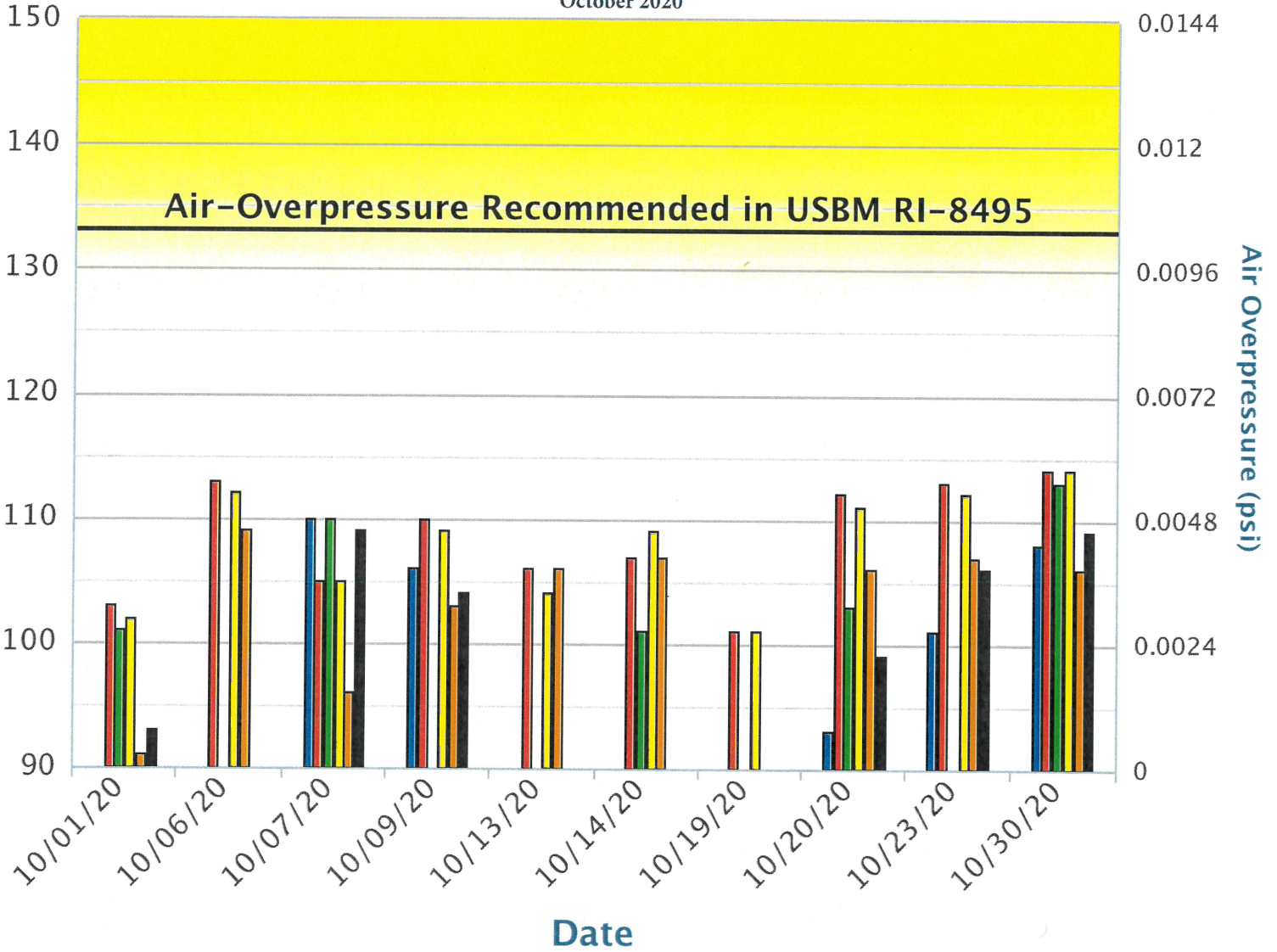
Garden Ridge

Google Earth

© 2020 Google

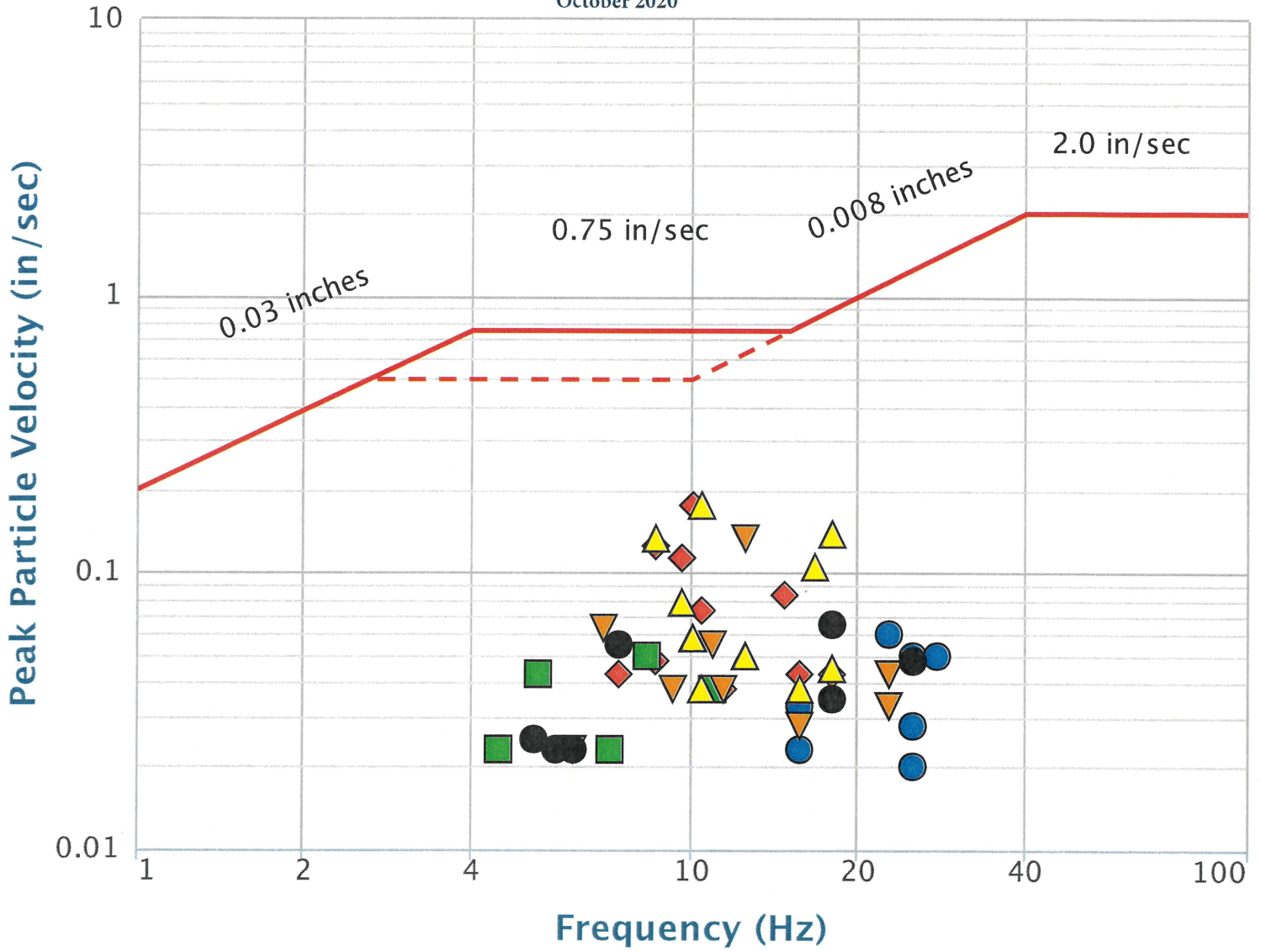


Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 October 2020



- Baker Residence
- Warden Prop Line
- City Property Line
- Warden Residence
- Holly Residence
- Michels Residence

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 USBM Graph
 October 2020



- Baker Residence ◆ Warden Prop Line ■ City Property Line ▲ Warden Residence
- ▼ Holly Residence ● Michels Residence

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2020**

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
10/01/20	10/01/2020 Pond 4 Level 1 N. A	N 29° 38' 59.37" W 098° 17' 20.46"	SUNNY 85° SW 7	13:16	0.033	15.6	90	772	421.00	6,545	Baker Residence
10/01/20	10/01/2020 Pond 4 Level 1 N. A	N 29° 38' 59.37" W 098° 17' 20.46"	SUNNY 85° SW 7	13:16	0.023	7.1	101	772	421.00	4,803	City Property Line
10/01/20	10/01/2020 Pond 4 Level 1 N. A	N 29° 38' 59.37" W 098° 17' 20.46"	SUNNY 85° SW 7	13:16	0.035	17.9	93	772	421.00	5,391	Michels - 9118 Tuscan Hills
10/01/20	10/01/2020 Pond 4 Level 1 N. A	N 29° 38' 59.37" W 098° 17' 20.46"	SUNNY 85° SW 7	13:16	0.078	9.6	102	772	421.00	4,068	Warden - 21375 Gunther Grove
10/01/20	10/01/2020 Pond 4 Level 1 N. A	N 29° 38' 59.37" W 098° 17' 20.46"	SUNNY 85° SW 7	13:16	0.073	10.4	103	772	421.00	3,766	Warden Property Line
10/06/20	10/06/2020 Base Pit E. B	N 29° 38' 5.34" W 098° 16' 46.39"	SUNNY 84° SW 11	13:13	NT	NT	NT	1148	764.00	9,149	Baker Residence
10/06/20	10/06/2020 Base Pit E. B	N 29° 38' 5.34" W 098° 16' 46.39"	SUNNY 84° SW 11	13:13	NT	NT	NT	1148	764.00	6,198	City Property Line
10/06/20	10/06/2020 Base Pit E. B	N 29° 38' 5.34" W 098° 16' 46.39"	SUNNY 84° SW 11	13:13	0.043	22.7	109	1148	764.00	3,656	Holly - 9916 Trophy Oaks
10/06/20	10/06/2020 Base Pit E. B	N 29° 38' 5.34" W 098° 16' 46.39"	SUNNY 84° SW 11	13:13	NT	NT	NT	1148	764.00	9,263	Michels - 9118 Tuscan Hills
10/06/20	10/06/2020 Base Pit E. B	N 29° 38' 5.34" W 098° 16' 46.39"	SUNNY 84° SW 11	13:13	0.045	17.9	112	1148	764.00	5,050	Warden - 21375 Gunther Grove
10/07/20	10/07/2020 Aggie Pit E. A	N 29° 38' 46.00" W 098° 17' 37.80"	PARTLY CLOUDY 85° N 5	13:14	0.05	25	110	1104	648.00	4,593	Baker Residence
10/07/20	10/07/2020 Aggie Pit E. A	N 29° 38' 46.00" W 098° 17' 37.80"	PARTLY CLOUDY 85° N 5	13:14	0.05	8.3	110	1104	648.00	2,820	City Property Line
10/07/20	10/07/2020 Aggie Pit E. A	N 29° 38' 46.00" W 098° 17' 37.80"	PARTLY CLOUDY 85° N 5	13:14	0.048	25	109	1104	648.00	3,718	Michels - 9118 Tuscan Hills
10/07/20	10/07/2020 Aggie Pit E. A	N 29° 38' 46.00" W 098° 17' 37.80"	PARTLY CLOUDY 85° N 5	13:14	0.138	17.9	105	1104	648.00	2,339	Warden - 21375 Gunther Grove
10/07/20	10/07/2020 Aggie Pit E. A	N 29° 38' 46.00" W 098° 17' 37.80"	PARTLY CLOUDY 85° N 5	13:14	0.113	9.6	105	1104	648.00	2,048	Warden Property Line
10/09/20	10/09/2020 Pond 4 Level 1 N. A	N 29° 39' 4.70" W 098° 17' 16.18"	SUNNY 85° N 8	13:16	0.028	25	106	1134	405.00	7,135	Baker Residence

NT = No Trigger, <0.020ips.
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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2020**

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
10/09/20	10/09/2020 Pond 4 Level 1 N. A	N 29° 39' 4.70" W 098° 17' 16.18"	SUNNY 85° N 8	13:16	NT	NT	NT	1134	405.00	5,461	City Property Line
10/09/20	10/09/2020 Pond 4 Level 1 N. A	N 29° 39' 4.70" W 098° 17' 16.18"	SUNNY 85° N 8	13:16	0.025	5.2	104	1134	405.00	5,900	Michels - 9118 Tuscan Hills
10/09/20	10/09/2020 Pond 4 Level 1 N. A	N 29° 39' 4.70" W 098° 17' 16.18"	SUNNY 85° N 8	13:16	0.058	10	109	1134	405.00	4,718	Warden - 21375 Gunther Grove
10/09/20	10/09/2020 Pond 4 Level 1 N. A	N 29° 39' 4.70" W 098° 17' 16.18"	SUNNY 85° N 8	13:16	0.043	7.4	110	1134	405.00	4,417	Warden Property Line
10/13/20	10/13/2020 Legacy N. A	N 29° 38' 11.02" W 098° 16' 34.78"	SUNNY 83° NE 6	13:06	NT	NT	NT	1430	557.00	10,013	Baker Residence
10/13/20	10/13/2020 Legacy N. A	N 29° 38' 11.02" W 098° 16' 34.78"	SUNNY 83° NE 6	13:06	NT	NT	NT	1430	557.00	7,066	City Property Line
10/13/20	10/13/2020 Legacy N. A	N 29° 38' 11.02" W 098° 16' 34.78"	SUNNY 83° NE 6	13:06	0.033	22.7	106	1430	557.00	4,562	Holly - 9916 Trophy Oaks
10/13/20	10/13/2020 Legacy N. A	N 29° 38' 11.02" W 098° 16' 34.78"	SUNNY 83° NE 6	13:06	NT	NT	NT	1430	557.00	9,959	Michels - 9118 Tuscan Hills
10/13/20	10/13/2020 Legacy N. A	N 29° 38' 11.02" W 098° 16' 34.78"	SUNNY 83° NE 6	13:06	0.038	15.6	104	1430	557.00	5,871	Warden - 21375 Gunther Grove
10/14/20	10/14/2020 Base Pit N. A	N 29° 38' 22.50" W 098° 17' 8.86"	SUNNY 86° SW 12	13:17	0.06	22.7	87	1064	216.00	6,870	Baker Residence
10/14/20	10/14/2020 Base Pit N. A	N 29° 38' 22.50" W 098° 17' 8.86"	SUNNY 86° SW 12	13:17	0.023	4.5	101	1064	216.00	3,976	City Property Line
10/14/20	10/14/2020 Base Pit N. A	N 29° 38' 22.50" W 098° 17' 8.86"	SUNNY 86° SW 12	13:17	0.133	12.5	107	1064	216.00	1,716	Holly - 9916 Trophy Oaks
10/14/20	10/14/2020 Base Pit N. A	N 29° 38' 22.50" W 098° 17' 8.86"	SUNNY 86° SW 12	13:17	0.023	5.7	87	1064	216.00	6,740	Michels - 9118 Tuscan Hills
10/14/20	10/14/2020 Base Pit N. A	N 29° 38' 22.50" W 098° 17' 8.86"	SUNNY 86° SW 12	13:17	0.105	16.7	109	1064	216.00	2,743	Warden - 21375 Gunther Grove
10/19/20	10/19/2020 Upper W. 3G	N 29° 38' 57.30" W 098° 17' 48.43"	SUNNY 84° SE 6	13:32	0.023	15.6	88	1448	225.00	4,365	Baker Residence
10/19/20	10/19/2020 Upper W. 3G	N 29° 38' 57.30" W 098° 17' 48.43"	SUNNY 84° SE 6	13:32	NT	NT	NT	1448	225.00	3,611	City Property Line

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2020**

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
10/19/20	10/19/2020 Upper W. 3G	N 29° 38' 57.30" W 098° 17' 48.43"	SUNNY 84° SE 6	13:32	NT	NT	NT	1448	225.00	2,970	Michels - 9118 Tuscan Hills
10/19/20	10/19/2020 Upper W. 3G	N 29° 38' 57.30" W 098° 17' 48.43"	SUNNY 84° SE 6	13:32	0.038	10.4	101	1448	225.00	3,554	Warden - 21375 Gunther Grove
10/19/20	10/19/2020 Upper W. 3G	N 29° 38' 57.30" W 098° 17' 48.43"	SUNNY 84° SE 6	13:32	0.038	11.4	101	1448	225.00	3,301	Warden Property Line
10/20/20	10/20/2020 Aggie Pit N. B	N 29° 38' 50.47" W 098° 17' 40.92"	PARTLY CLOUDY 83° SE 8	13:34	0.05	27.8	93	1184	567.00	4,530	Baker Residence
10/20/20	10/20/2020 Aggie Pit N. B	N 29° 38' 50.47" W 098° 17' 40.92"	PARTLY CLOUDY 83° SE 8	13:34	0.043	5.3	103	1184	567.00	3,107	City Property Line
10/20/20	10/20/2020 Aggie Pit N. B	N 29° 38' 50.47" W 098° 17' 40.92"	PARTLY CLOUDY 83° SE 8	13:34	0.065	17.9	99	1184	567.00	3,460	Michels - 9118 Tuscan Hills
10/20/20	10/20/2020 Aggie Pit N. B	N 29° 38' 50.47" W 098° 17' 40.92"	PARTLY CLOUDY 83° SE 8	13:34	0.175	10.4	111	1184	567.00	2,785	Warden - 21375 Gunther Grove
10/20/20	10/20/2020 Aggie Pit N. B	N 29° 38' 50.47" W 098° 17' 40.92"	PARTLY CLOUDY 83° SE 8	13:34	0.175	10	112	1184	567.00	2,506	Warden Property Line
10/23/20	10/23/2020 Pond 4 Level 1 N. A	N 29° 39' 5.59" W 098° 17' 15.63"	PARTLY CLOUDY 81° N 4	12:14	0.02	25	101	1442	481.00	7,222	Baker Residence
10/23/20	10/23/2020 Pond 4 Level 1 N. A	N 29° 39' 5.59" W 098° 17' 15.63"	PARTLY CLOUDY 81° N 4	12:14	NT	NT	NT	1442	481.00	5,562	City Property Line
10/23/20	10/23/2020 Pond 4 Level 1 N. A	N 29° 39' 5.59" W 098° 17' 15.63"	PARTLY CLOUDY 81° N 4	12:14	0.023	6.1	106	1442	481.00	5,974	Michels - 9118 Tuscan Hills
10/23/20	10/23/2020 Pond 4 Level 1 N. A	N 29° 39' 5.59" W 098° 17' 15.63"	PARTLY CLOUDY 81° N 4	12:14	0.05	12.5	112	1442	481.00	4,820	Warden - 21375 Gunther Grove
10/23/20	10/23/2020 Pond 4 Level 1 N. A	N 29° 39' 5.59" W 098° 17' 15.63"	PARTLY CLOUDY 81° N 4	12:14	0.048	8.6	113	1442	481.00	4,519	Warden Property Line
10/30/20	10/30/2020 Aggie Pit N. A	N 29° 38' 50.10" W 098° 17' 38.34"	SUNNY 65° NE 7	13:24	0.048	25	108	1216	581.00	4,716	Baker Residence
10/30/20	10/30/2020 Aggie Pit N. A	N 29° 38' 50.10" W 098° 17' 38.34"	SUNNY 65° NE 7	13:24	0.038	10.9	113	1216	581.00	3,164	City Property Line
10/30/20	10/30/2020 Aggie Pit N. A	N 29° 38' 50.10" W 098° 17' 38.34"	SUNNY 65° NE 7	13:24	0.055	7.4	109	1216	581.00	3,682	Michels - 9118 Tuscan Hills

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2020**

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
10/30/20	10/30/2020 Aggie Pit N. A	N 29° 38' 50.10" W 098° 17' 38.34"	SUNNY 65° NE 7	13:24	0.133	8.6	114	1216	581.00	2,750	Warden - 21375 Gunther Grove
10/30/20	10/30/2020 Aggie Pit N. A	N 29° 38' 50.10" W 098° 17' 38.34"	SUNNY 65° NE 7	13:24	0.125	8.6	114	1216	581.00	2,462	Warden Property Line

NT = No Trigger, <0.020ips.
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#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to VibraTech
2020-52Q	September	9/30/2020	1:34	9/30/2020	Karen Diaz	21010 Gunther Grove	210-843-2946	5	1	2800	Yes	The blast that occurred today at 1:34 PM sent waves(vibration) through my house. I was sitting in the back part of my kitchen, my granddaughter was doing virtual school in the office. She even came out and said, "That was a big blast!" I have glasses in a hutch that swayed. It was an awful feeling! I have been home all day for the last 2 weeks and this was so disturbing that I had to submit a report	9/30/2020
2020-53Q	October	10/7/2020	1:16	10/7/2020	Valinda McAlister-Bacon	21260 Forest Waters Circle	210-422-2880	4	2	4400	No	Stronger than usual. Walls are starting to show more cracks. Not good.	10/7/2020
2020-54Q	October	10/7/2020	1:13	10/7/2020	Amy Harrell	9315 Sumac Lane	817-412-8393	5	1 1/2	3000	Yes	Shook my entire house, windows rattled. The increased intensity of the blasts are becoming more and more concerning. I've noticed foundation cracks starting to form.	10/7/2020
2020-55Q	October	10/7/2020	1:17	10/7/2020	Luis Castellanos	9608 Kurre Way	210-260-6839	4	1 1/2	4400	Yes	This is strongest blast that we have felt. It shook the whole house. Several of our hanging pictures were crooked after the blast.	10/7/2020
2020-56Q	October	10/7/2020	1:13	10/7/2020	Lee Isom	9351 Cinchona Trail	830-892-3161	4	1	2300	No	Entire house shook and rattled. Earth "jolting" movement was quite alarming.	10/7/2020
2020-57Q	October	10/7/2020	1:13	10/8/2020	Anthony Frasco	8802 Wild Wind Park	210-651-5276	5	1	4000		The Blasts have been getting more frequent and more powerful. The 10/07 blast shook the entire house and lasted longer than the others. Almost like after shocks. My wife ran outside to see if there was a plane crash. FRIGHTENING!	10/8/2020
2020-58Q	October	10/14/2020	2:45	10/14/2020	Charles Scott	9860 Trophy Oaks						A large boom and a severe shaking of the ground, house and other structures on our property.	10/14/2020
2020-59Q	October	10/7/2020	1:13	10/15/2020	Sherry Barwick	21934 Castano Cove	210-465-7527	5	1	3200	No	My home rattled everywhere. Noise from all directions. It scared my dog, he ran and jumped in my lap.	10/15/2020
2020-60Q	October	10/20/2020	1:34	10/20/2020	James Walker	21919 Paseo Corto Dr	210-945-0480	4	1	3650	Yes	My house rattled from a blast during quarry testing.	10/20/2020
2020-61Q	October	10/20/2020	1:33	10/20/2020	Vivienne Midla	8724 Verano Drive	210-827-1690	4	1	2500	No	Blast had reverbated effect on our home. I was in my office working, when the blast happened. My computer screens absorbed the shock and shook as the blast went back and forth through the ground. Closet doors were closed but vibrated, making a rattling sound.	10/21/2020

2020-62Q	October	10/20/2020	1:33	10/20/2020	Joleen Gould	9546 Teakwood Drive	210-241-4305	5	1	2300	Yes	Severe quake and shock felt throughout house at 1:33 pm. Entire house floor rumbled and shook to the point that china cabinet rattled severely. I was working on my computer and had to stop. The quake scared me, I wasn't sure if a truck had hit the house, the sound and vibration was so severe. Two weeks ago there were two such afternoon incidents as well which I did not report but I am really concerned about the weekly barrage of blasts on my house and the long term damage that it may be causing. I can tell you that combined it is truly scary experience weekly to deal with as a homeowner when they quakes hit the house out of the blue and shake the floor underneath you and your surroundings. I believe this is doing damage to our foundation and pool. It is very hard to image building anything on this property with the blasting that is occurring weekly.	10/20/2020
2020-63Q	October	44134	0.059028	44134	Kathleen Frasco	8802 Wild Wind Park	210-651-5276	5	1	4000	Yes	It was not typical...it was pulsating. Rolling explosions. Frightening.	44134

Print**Citizen Quarry Blast Impact Report - Submission #2319****Date Submitted: 9/30/2020****First Name**

Karen

Last Name

Diaz

Report Date

9/30/2020

Phone Number:

210-843-2946

E-Mail Address**Address1**

21010 Gunther Grove

Blast Date/Time:

1:34 PM

Please describe the event.

The blast that occurred today at 1:34 PM sent waves(vibration) through my house. I was sitting in the back part of my kitchen, my granddaughter was doing virtual school in the office. She even came out and said, "That was a big blast!" I have glasses in a hutch that swayed. It was an awful feeling! I have been home all day for the last 2 weeks and this was so disturbing that I had to submit a report.

How did this blast compare to other blasts?

This was a stronger blast. We have lived in our home since 1999. I feel blasts all the time and I only report those that are intense.

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 a table in the kitchen

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

W

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 story

Would you like a Quarry Representative 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.

Print**Citizen Quarry Blast Impact Report - Submission #2340****Date Submitted: 10/7/2020****First Name**

Valinda

Last Name

McAlister-Bacon

Report Date

10/7/2020

Phone Number:

210-422-2880

E-Mail Address**Address1**

21260 Forest Waters Circle

Blast Date/Time:

1/16pm

Please describe the event.

Stronger and longer than usual.

Walls are starting to show more cracks....

Not good.

How did this blast compare to other 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

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 Representative to contact you regarding your report?*

No

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

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Print**Citizen Quarry Blast Impact Report - Submission #2341****Date Submitted: 10/7/2020****First Name**

Amy

Last Name

Harrell

Report Date

10/7/2020

Phone Number:

8174128393

E-Mail Address**Address1**

9315 sumac ln

Blast Date/Time:

:13

Please describe the event.

Shook my entire house, windows rattled. The increased intensity of the blasts are becoming more and more concerning. I've noticed foundation cracks starting to form.

How did this blast compare to other blasts?

This past year the blast have been off the charts, frankly unexceptional!

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?

Standing

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

W

What is the approximate square footage of your home?

3,000

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

Split

Would you like a Quarry Representative to contact you regarding your report?*

Yes

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

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Print**Citizen Quarry Blast Impact Report - Submission #2342****Date Submitted: 10/7/2020****First Name**

Luis

Last Name

Castellanos

Report Date

10/7/2020

Phone Number:

2102606839

E-Mail Address**Address1**

9608 Kurre Way

Blast Date/Time:10/07/2020; about
1:20PM**Please describe the event.**

Blast from Quarry

How did this blast compare to other blasts?

This is strongest blast that we have felt. It shook the whole house. Several of our hanging pictures were crooked after the blast.

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

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?

1 1/2

Would you like a Quarry Representative to contact you regarding your report?*

Yes

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

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Print

Citizen Quarry Blast Impact Report - Submission #2343

Date Submitted: 10/7/2020

First Name

Lee

Last Name

Isom

Report Date

10/7/2020

Phone Number:

830.8922.3161

E-Mail Address

[REDACTED]

Address1

9351 Cinchona Trail

Blast Date/Time:

1:13 PM

Please describe the event.

Entire house shook and rattled. Earth "jolting" movement was quite alarming.

How did this blast compare to other blasts?

They are increasing in numbers. I didn't know about this blasting report otherwise I would have reported 3-5 additional times in the last month or so.

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 from Home

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

All the above. Front of house faces S

What is the approximate square footage of your home?

2300

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

1

Would you like a Quarry Representative to contact you regarding your report?*

No

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

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CITY OF GARDEN RIDGE
CITIZEN QUARRY BLAST IMPACT REPORT

Name: Anthony FRASCO Report Date: Oct. 8, 2020
 Address: 8802 Wild Wind park E-Mail Address: [REDACTED]
 Phone: 210 (65) 5276 Blast Date/Time: 1:13 pm Oct 7, 2020

Please describe the event.

The Blasts have been getting more frequent and more powerful. The Oct 7, Blast shook the entire house and lasted longer than the others. Almost like after shocks. My wife ran outside to see if there was a plane crash. FRIGHTENING!!!

How did this blast compare to other blasts? The absolute worst Blast in 10 years.

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? working on my computer

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

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

What is the approximate square footage of your home? 4K

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 every other month at 6:00 PM in the Municipal Courtroom.

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

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

Assistant City Secretary

From: City Administrator
Sent: Wednesday, October 14, 2020 4:07 PM
To: Assistant City Secretary
Subject: FW: Quarry Blasting

Kat,

Will you please make sure this gets forwarded to everyone that receives blast reports?

Thanks,
Nancy Cain
City Administrator

From: Charles Scott [REDACTED]
Sent: Wednesday, October 14, 2020 2:48 PM
To: City Administrator <administrator@ci.garden-ridge.tx.us>
Subject: [EXTERNAL] Quarry Blasting

Today, 10/14/2020, at about 1445 hrs +/-, a large boom and a severe shaking of the ground, house and other structures on our property at 9860 Trophy Oaks Drive occurred as a result of blasting at the quarry.
Charles W. Scott

Sent from [Mail](#) for Windows 10

CITY OF GARDEN RIDGE
CITIZEN QUARRY BLAST IMPACT REPORT

Name: Sherry Barwick Report Date: 10/15/2020
Address: 21934 Castano Lane E-Mail Address: [REDACTED]
Phone: 210-465-7527 Blast Date/Time: 10/17/2020 1:15

Please describe the event.

My home "rattled" everywhere. Noises from all directions. It scared my dog so bad, he ran and jumped in my lap!

How did this blast compare to other blasts? much more intensity!

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? sitting

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

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? 3200

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

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

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CITY OF GARDEN RIDGE
CITIZEN QUARRY BLAST IMPACT REPORT

Name: JAMES & Valerie WALKER Report Date: 20 Oct 20 20

Address: 21919 PASEO CORO DR E-Mail Address: _____
Garden Ridge TX 78246

Phone: 210-945-0480 / 580-642-3080 Blast Date/Time: 20 Oct 20 1133hrs

Please describe the event.

About 1334 hours 20 Oct 20 My house Rattle
FROM a Blast during Quarry testing

How did this blast compare to other blasts? House Rattle MORE
Than past Blast

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? Watching TV

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

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

What is the approximate square footage of your home? 3650

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) 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 7:00 PM in the Municipal Courtroom.

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.

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

CITY OF GARDEN RIDGE
CITIZEN QUARRY BLAST IMPACT REPORT

Name: VIVIENNE MIDLA

Report Date: 10/20/2020

Address: 8724 VERANO DRIVE

E-Mail Address:

Phone: 210-827-1690

Blast Date/Time: 10/20/2020 / 1333

Please describe the event.

Blast had a reverberated effect on our home. I was in my office working, when the blast happened. My computer screens absorbed the shock and shook as the blast went back and forth through the ground. Closet doors were closed but vibrated, making a rattling sound.

How did this blast compare to other blasts? This blast was more intense on our home structure.

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 at computer in home office

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

Is your home a 1 story, 1 ½ story, or 2 story or larger? 1 story

What is the approximate square footage of your home? 2500

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

(Yes or No) No, but would like to request to be placed on the monitor list

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 Municipal Courtroom.

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

Print

Citizen Quarry Blast Impact Report - Submission #2360

Date Submitted: 10/20/2020

First Name

Joleen

Last Name

Gould

Report Date

10/20/2020

Phone Number:

2102414305

E-Mail Address

[REDACTED]

Address1

9546 Teakwood

Blast Date/Time:

10/20/2020

Please describe the event.

Severe quake and shock felt throughout house at 1:33 pm.
 Entire house floor rumbled and shook to the point that china cabinet rattled severely.
 I was working on my computer and had to stop.
 The quake scared me, I wasn't sure if a truck had hit the house, the sound and vibration was so severe.
 Two weeks ago there were two such afternoon incidents as well which I did not report but I am really concerned about the weekly barrage of blasts on my house and the long term damage that it may be causing.
 I can tell you that combined it is truly scary experience weekly to deal with as a homeowner when they quakes hit the house out of the blue and shake the floor underneath you and your surroundings.
 I believe this is doing damage to our foundation and pool. It is very hard to image building anything on this property with the blasting that is occurring weekly.

How did this blast compare to other blasts?

Severe

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?

working on computer

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

N

What is the approximate square footage of your home?

2300

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

1 story

Would you like a Quarry Representative to contact you regarding your report?*

Yes

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.

Print**Citizen Quarry Blast Impact Report - Submission #2375****Date Submitted: 10/30/2020****First Name**

kathleen and

Last Name

frasco

Report Date

10/30/2020

Phone Number:

12106515276

E-Mail Address**Address1**

8802 Wild Wind Park

Blast Date/Time:**Please describe the event.**

Another blast. This one was at 1:25pm . It was not typical...it was pulsating. Rolling explosions. Frightening.

How did this blast compare to other blasts?

Same time frame. Same intensity

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)**What is the approximate square footage of your home?**

4K

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

Single story

Would you like a Quarry Representative 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.

Print

City Commission Volunteer Interest Form - Submission #2229

Date Submitted: 8/5/2020



City of Garden Ridge

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

City Commission Volunteer Interest Form

First Name*

Gary

Last Name

Dellinger

Address*

9040 Sumac Cove

Phone Number

2105400790

Email Address

Date of Birth*

11/25/1967

Voter Unique Identifier (VUID)

Qualifications from Ordinance No. 210*

Please check all the boxes that apply to you.

- A registered voter in Garden Ridge, TX
- Has resided in the City for at least six (6) months
- Has not been convicted of a felony
- Has not been found mentally incompetent by a final judgment of a court

Occupation

North American Product Line Manager

Please check which of the following Commission you have a desire to serve on:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Planning and Zoning Commission | <input checked="" type="checkbox"/> Wildlife Management Advisory Commission |
| <input checked="" type="checkbox"/> Quarry Commission | <input type="checkbox"/> Any City Commission |
| <input checked="" type="checkbox"/> Water Commission | |

Tell us why you desire to serve on a City Commission.

To better serve the citizens of my city and be more aware of current and upcoming activities.

List any Boards, Commissions or Committees you have previously served on in Garden Ridge or other entities.

Forest Waters Secretary; Forest Waters President

Please attach your resume or a bio.*

Dellinger_Gary Resume V2.2.pdf

Date

8/5/2020

A resume or a bio is required to be submitted with Volunteer Interest Form.

GARY DELLINGER

9040 Sumac Cove
Garden Ridge, TX 78266

210.540.0790

MANAGEMENT ○ TECHNICAL SALES ○ BUSINESS DEVELOPMENT ○ OPERATIONS

Competencies

- BUSINESS ANALYTICS
- PROFIT AND LOSS
- PEOPLE MANAGEMENT
- SOLUTION PROVIDER
- PRODUCT AND MARKET STRATEGY
- TECHNICAL TRAINING AND DEVELOPMENT
- INVENTORY AND ASSET OPTIMIZATION
- TEAM BUILDING & LEADERSHIP

Highlights & Selective Achievements

- Strategic leader of 2 separate corporate initiatives reducing spend and increasing profitability
- Inventor of method for developing AlphaST® Single Trip Openhole Sidetrack System (patent pending)
- Successfully turned around failing business in depressed market
- Incorporated multiple disciplines changing mindsets re-branding business in Permian
- Initiated and managed 2 separate training efforts expanding talent pool and promoting from within
- Over 700 successful casing exits completed
- Trained several hundred Weatherford employees in best practices of cutting, fishing and milling

Career History

Weatherford, US GeoZone Service Delivery Manager, ISDT/WH, 04/2018 – Present

First ever Service Delivery Manager for these product lines.

- ◇ Responsible for providing leadership through the CPAR process.
- ◇ Developed and managed a team of highly skilled technical specialists.
- ◇ Personally assessed assets at each of 24 locations to maximize utilization through redeployment.
- ◇ Standardized product line pay structure across the region.

Weatherford, Pearland TX, Operations Manager, Drilling Tools and Intervention, 10/2017 – 04/2018

Brought into struggling business location to turn it around. Tripled revenue (\$396K -\$990K), vastly increased EBITDA (-62.8% to +46.6%)

- ◇ Responsible for setting budgetary targets for revenue, profit and costs for Drilling Rental Tools, Fishing Services, Casing Exit Products.
- ◇ Quickly identified several areas of weakness in the overall business and took steps to improve systems and processes.
- ◇ Took a culture of apathy toward business process and turned it into one of understanding and action to improve the profitability.
- ◇ Developed a team of highly dedicated and motivated individuals.

Weatherford, Texas Area, Product Line Manager, Fishing and Re-Entry, 11/2016 – 10/2017

Promoted to managing the busiest area within the US region.

- ◇ Promoted and enforced "Safety First – Safety Always" culture in area.
- ◇ Assisted in the global development of a standardized fishing job report.
- ◇ Instituted mentor-based fishing training in Permian area (mini Fast-Track.)
- ◇ Changed local management which, in time, translated to ~15% EBITDA increase.
- ◇ Promoted strict adherence Process and Procedure.
- ◇ Worked side-by-side with Permian sales to rebuild brand in area.

Weatherford, Texas Area, Fishing Manager, 10/2013 – 11/2016

Promoted from field operations.

- ◇ Managed Fishing operations in the Eagleford area.
- ◇ Supervised and directed the activities of, as well as mentor, 10 Fishing Tool Supervisors.
- ◇ Assisted and directed Open and Cased Hole operations in challenging vertical and horizontal conditions in Onshore and Offshore locations.
- ◇ Maintained excellent customer relations through technical expertise.

Weatherford, Wilburton OK, Corpus Christi TX, Wellsite Supervisor, 04/2008 – 10/2013

Provided expert level wellsite supervision for customers throughout the Mid-Continent Area.

- ◇ Supervised down-hole operations, as well as onsite operations for customers, as needed and directed.
- ◇ Supervised and directed open hole / cased hole fishing and re-entry operations in vertical and horizontal conditions.
- ◇ Maintained detailed, high level, records (BHA, Pipe tally, Jar analysis, Job reporting, etc.)

Weatherford, Houston TX/OKC OK, Technical Specialist, US Region, 2003 – 2008

Provided technical expertise and management for product line growth.

- ◇ Liaised between field supervisors and engineering on design and development of down hole tools.
- ◇ Prepared written procedures for various types of down hole tools and assist with sales and marketing of tools.
- ◇ Coordinated and managed collaboration between customers and supervisors before, during and after high profile jobs.
- ◇ Managed adequate inventories for growing the US Casing Exit market.
- ◇ Responsible for investigating and providing closure of issues relating to problem jobs.

Weatherford, Houston TX, Global Field / Classroom Trainer, 1998 - 2003

Trained hundreds of employees in the best practices and procedures of fishing and milling techniques.

- ◇ Assisted in the design and development of a vast array of fishing and milling tools (TripSaver® and QuickCut® Casing Exit Systems.)
- ◇ Introduced new tools to various parts of the world, supervised and performed ultra-high-profile jobs in Onshore and Offshore locations
- ◇ Trained individuals on new and prototype tools, in both field and classroom settings. Wrote and published procedures on new tools.
- ◇ Designed, developed and delivered a Dispatcher training course to hundreds of Weatherford employees.

Weatherford, Liberal KS, Fishing Tool Supervisor, 1995 - 1998

Provided downhole fishing and milling services in vertical and horizontal applications.

- ◇ Supervised down hole fishing / milling operations and services.
- ◇ Trained individuals on fishing and milling best practices.
- ◇ Interacted one on one with customer representatives and fostered those relationships.
- ◇ Provided and maintained detailed documentation regarding well information.

Weatherford, Wilburton OK, Shophand/Dispatcher/Shop Foreman, 1990 - 1995

- ◇ Fortified and fostered a "Safety First – Safety Always" culture.
- ◇ Prepared tools / jobs for dispatch to customer location.
- ◇ Prepared all necessary paperwork for tools / jobs being shipped to customer locations.
- ◇ Supervised all aspects of Fishing and Rental shop functions.

Education & Specialized Training

- **Eastern Oklahoma State College (2 years)**
- **University of Oklahoma – Train the Trainer Certification**
- **Weatherford Management Development**
- **Weatherford Team Development**
- **Weatherford Financial Training**
- **Weatherford TapRoot®**



Blasting Educational Materials

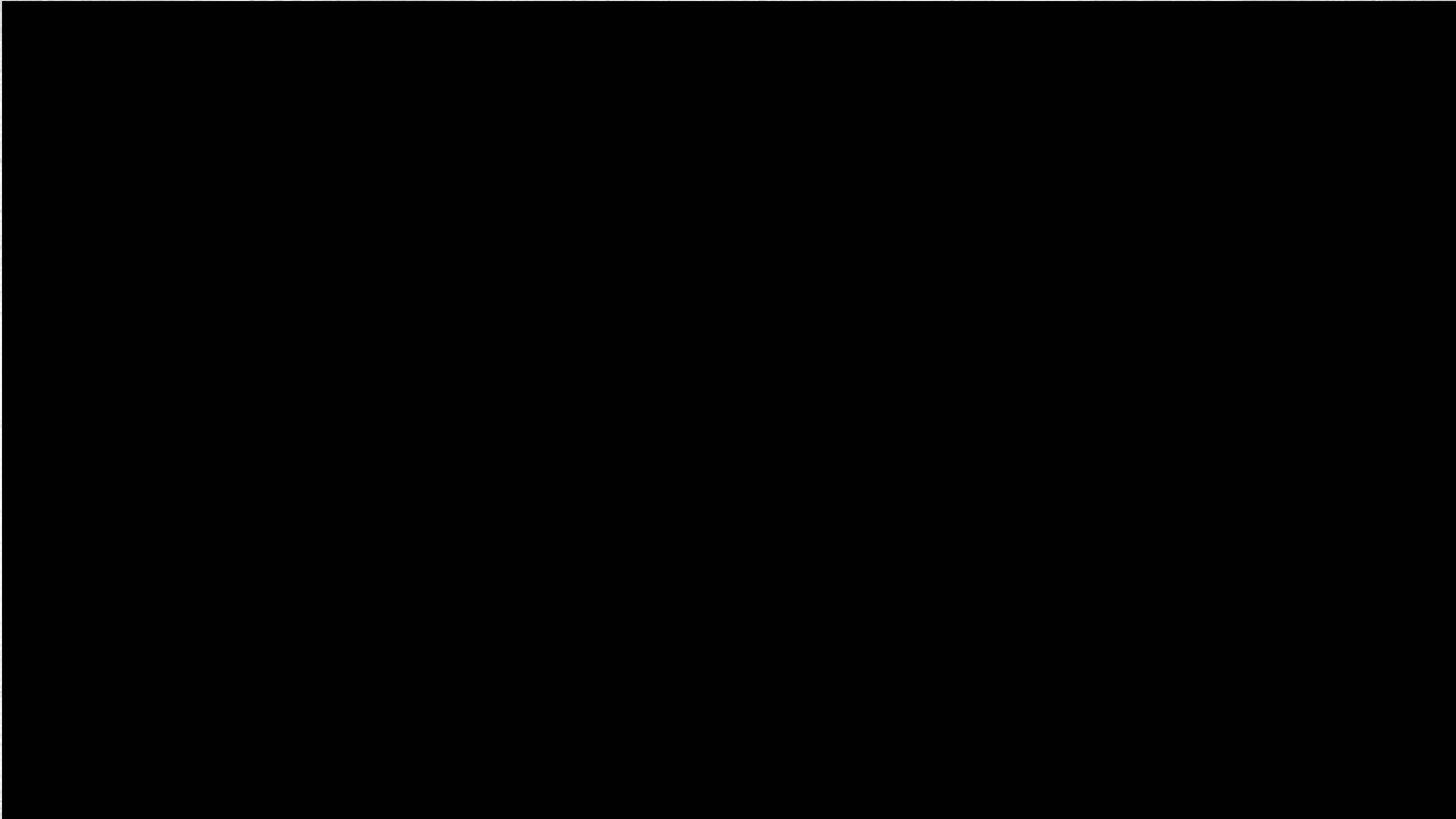
City of Garden Ridge, TX





ISEE Video - Understanding Vibrations from Blasting

Note: Please
double click
the video
player to play
(22 minute
video)




Why do I feel the Blasting?

- Although most of the energy from a blast is used to break the rock, some of the energy will travel away from the blast site in the form of ground and airwaves.
- Each of these ground and airwaves can cause your house to vibrate or shake.
- Because humans are very sensitive to all vibrations, it is possible that you will feel or hear these vibrations from the blast at even very low levels.

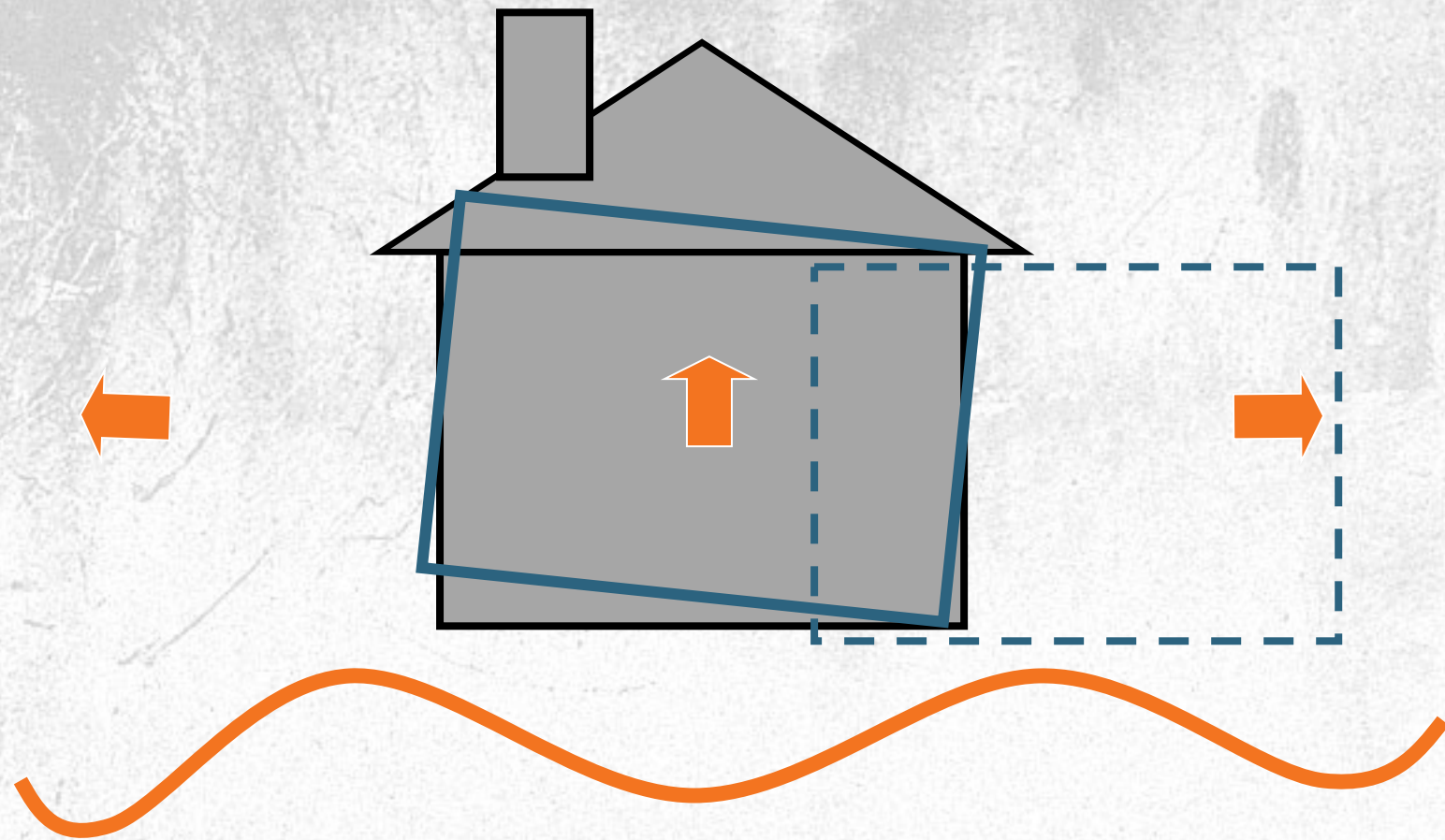
Why do some Blasts feel stronger than others?

- How a blast feels depends on the ground or airwaves that reach your house. The airwaves are influenced by the type of blast, the distance from the blast and the amount of explosives used in the blast. All blasting is designed and conducted by professionals with years of hands-on experience.
- Where you are on the property also affects your perception of the blast. If you are outside your house, you will tend to feel the ground vibrations in your feet and legs. If you are inside your house, you will sense both the structure and objects in your house responding to the vibrations. Because location affects your perception of the blast, you and your neighbors may feel or describe the same blast differently.
- Some basic characteristics that effect ground motion are geology, topography, and soil type.



When a blast is detonated, the vibration energy travels through the ground as wave fronts. These waves travel at different speeds, amplitude and direction, depending on the geology of the area. When these waves reach residences, structural response will be noticed.

*Ground Response = Structural Response
= Human Response*



Structural response is
directly and linearly proportional to ground
vibration amplitude

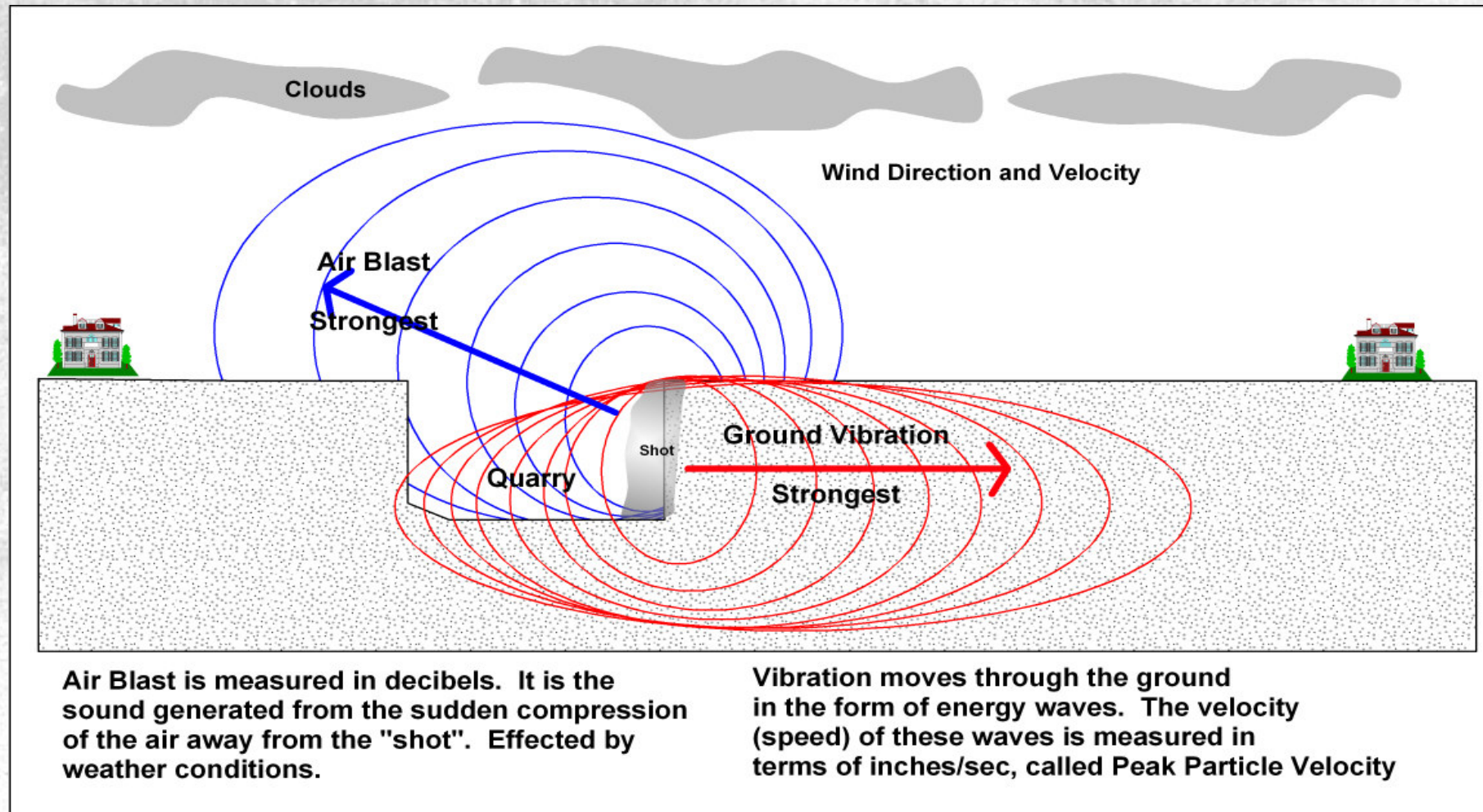
Reduce ground vibration by half and you reduce
house
vibration by half

Amplitude, Duration, and Frequency are
all factors that effect structural
response.

All homes respond differently.

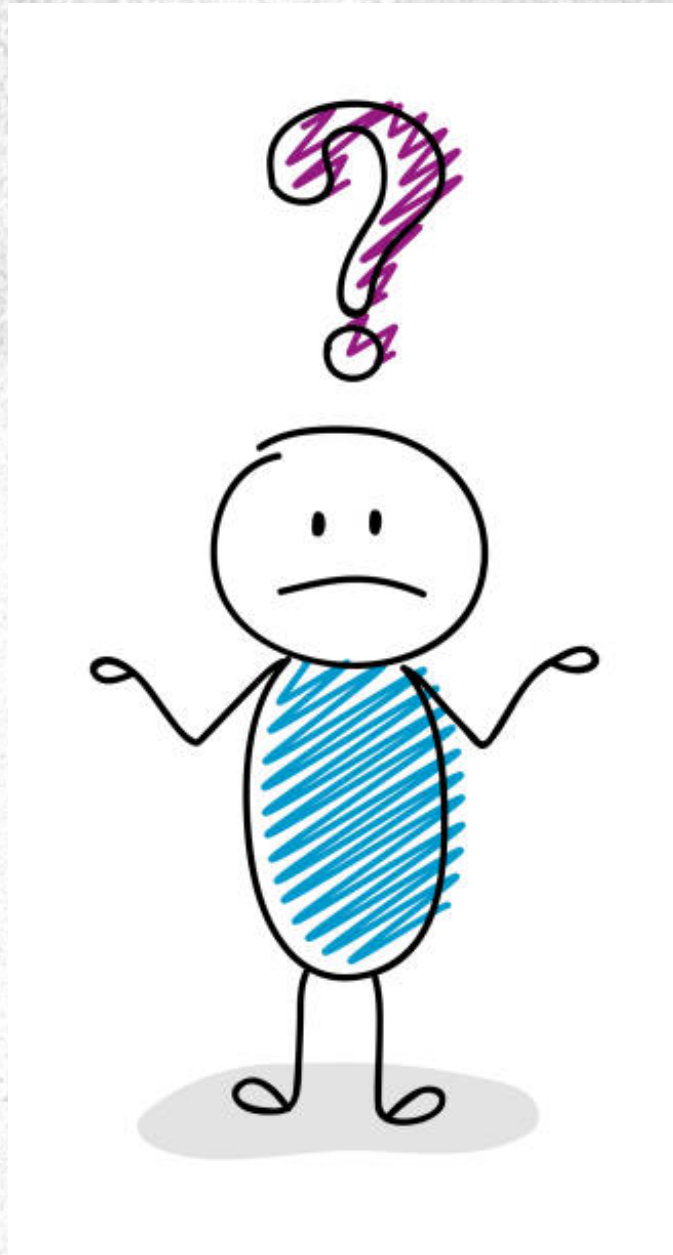
Measuring these factors helps us
determine safe structural response.

Self-triggering seismographs
automatically measure these factors.



Air overpressure is a compression wave measured as a change in atmospheric pressure. It is generated by the movement of the rock from the blast. The air overpressure can make your home feel two separate vibrations.

Can these vibrations damage my home?



Humans feel vibrations at very low levels. Although we are very good at detecting vibrations, we are not very good at determining their intensity.

- How we measure
- Foundation response
- Vibration and Air comparisons



Modern homes are built to specific municipality regulation

The design of each home and its building materials can make the response feel greater or less.

The natural frequency response of a home affects its response to vibration.

The mass, stiffness, and height of an object greatly effects its frequency.

Natural Frequency

Why it is important to know the natural frequency of a structure? In the following videos there are three different structures that are supported with same foundation. The foundation start to vibrates at various frequencies with same intensity. As you see, once the vibration frequency approaches the natural frequency of the structure, that structure will amplify the foundation vibration intensity and vibrates out of phase with the foundation. However, if the vibration frequency is different from the natural frequency of the structure, the structure and foundation move in phase and similar intensity.



Natural Frequency (4.00 Hz)





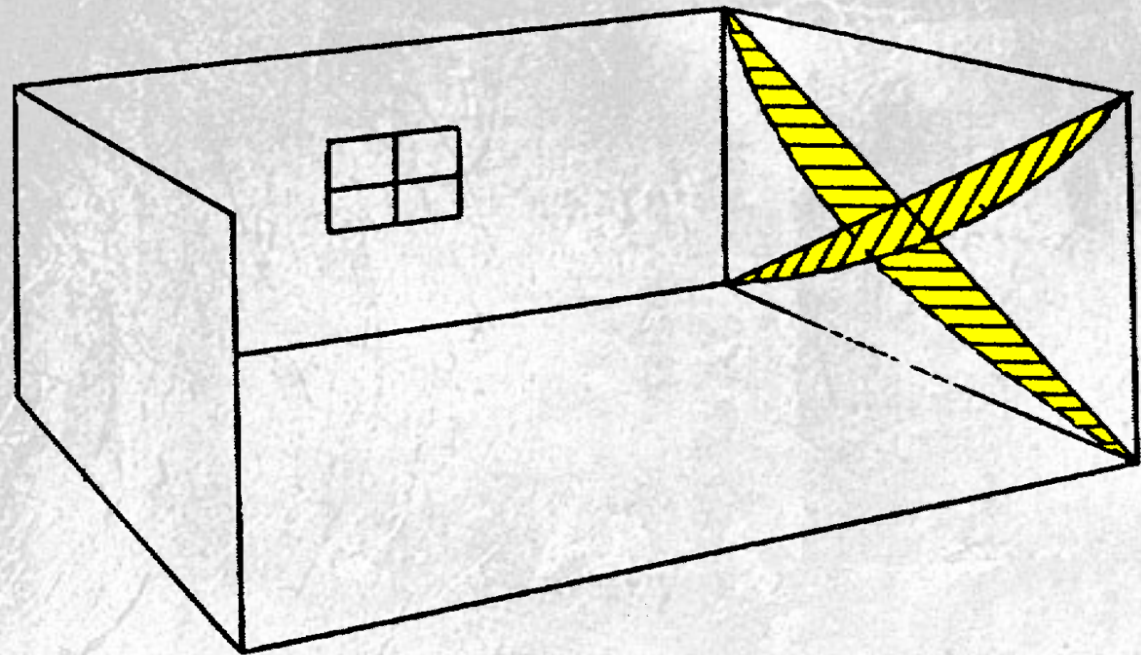
Natural Frequency (6.35 Hz)





Natural Frequency (11.35 Hz)

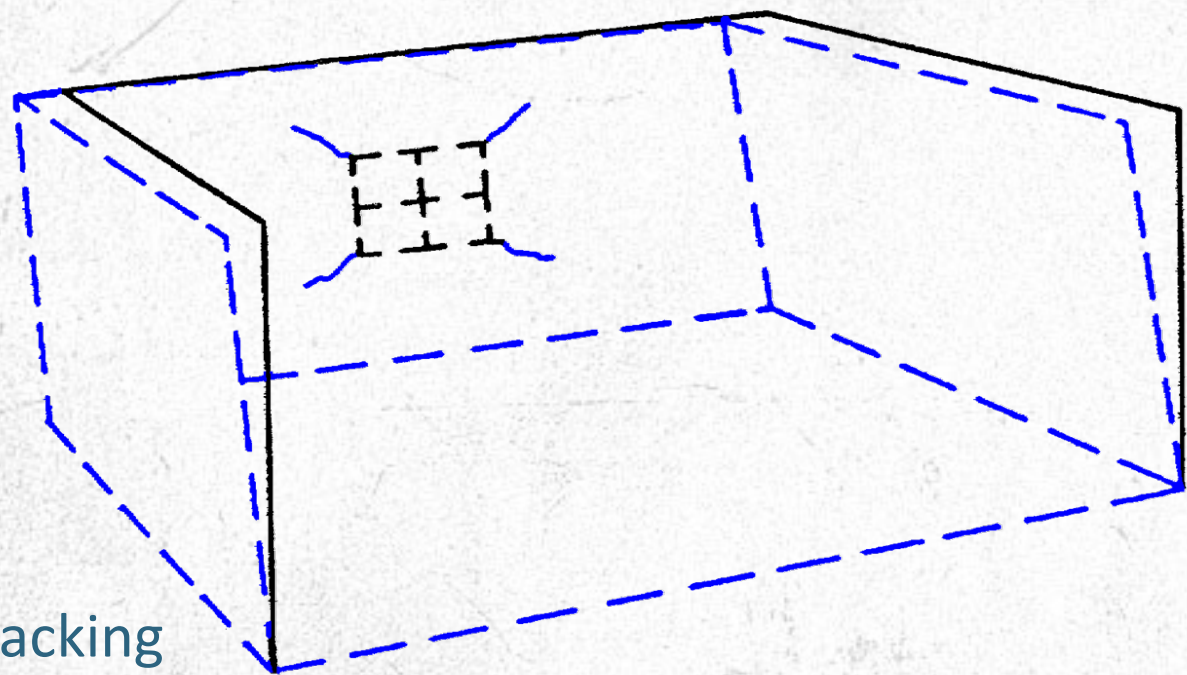




Midwall
Response

Bending

In the state of Texas, foundation settling is a common occurrence. Soils expand and contract due to the weather and other environmental factors.

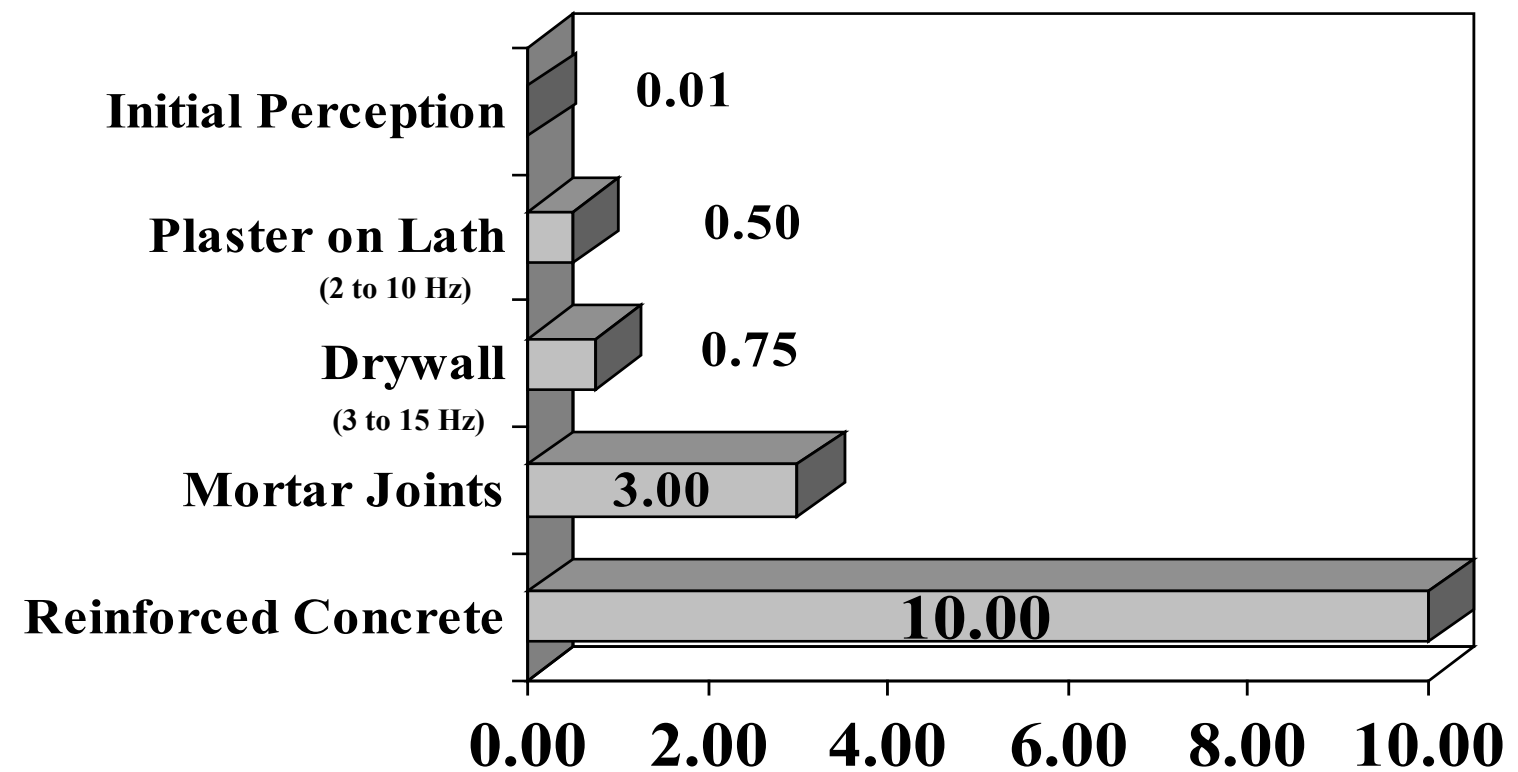


Racking
Response

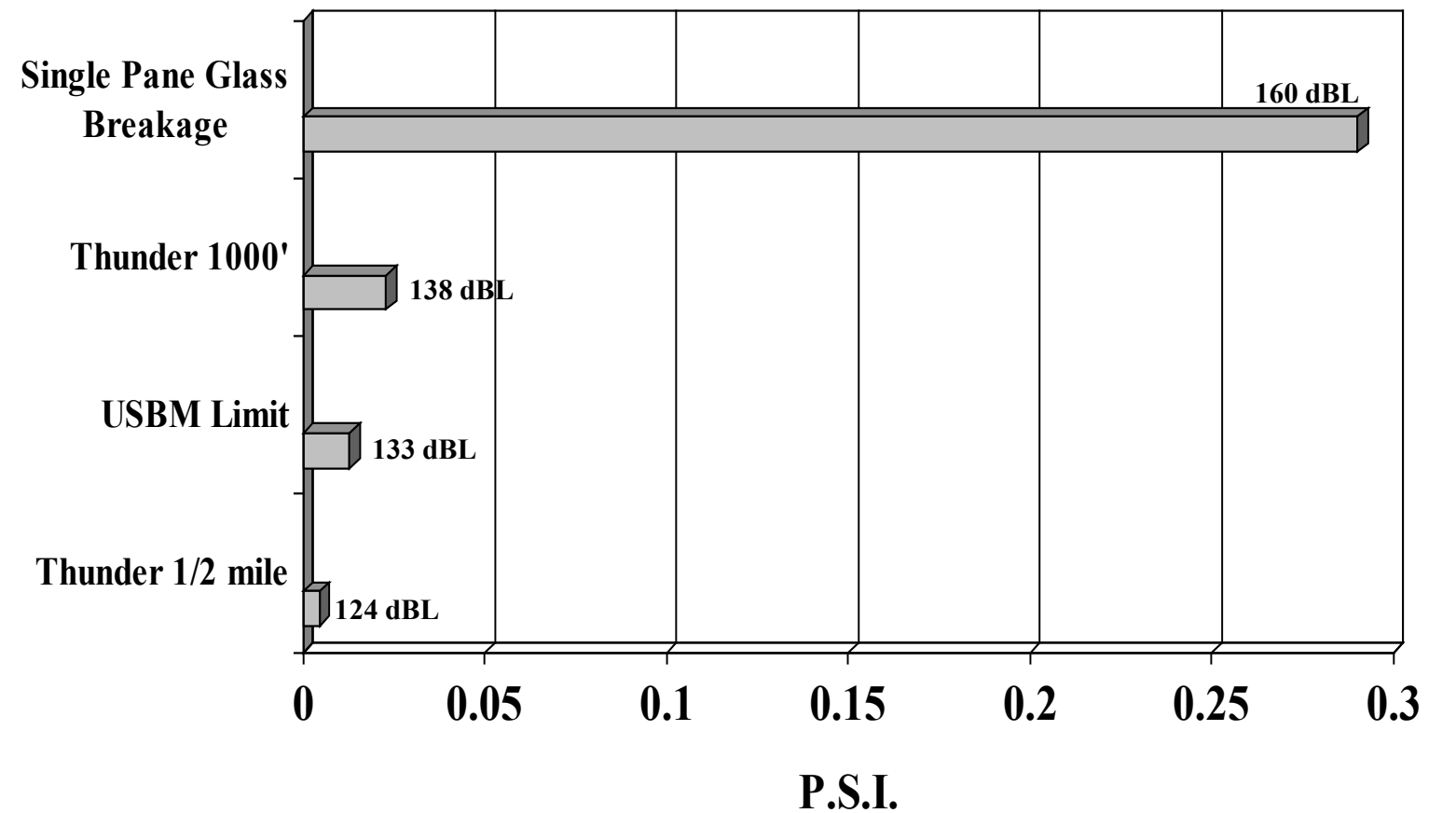
Shear

Foundational cracking resulting from blasting ground vibration without wall damage is almost unheard of.

Vibration Standards



Air Overpressure Level Comparisons



The graphics above show some comparison data for ground vibration and air overpressure.

What are safe vibration standards for blasting near homes?



- USBM study – Best Science & Data
- Ordinance 34
- Seismic monitoring and data collection

USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

The United States Bureau of Mines (USBM) studied the repeated effects of vibration on structures. They concluded that as long as the vibration levels were below regulated limits, cumulative or repeated effects that produce fatigue were not seen.

Their conclusions summarized that a home could withstand blasting twice per day at 0.50 inch per second for 28 years before the first crack would be expected to be extended, let alone a new crack created.

USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

In the same study, they found that there were forces acting on the structures that were greater than the levels from the blasting operation. These factors were changes in temperature and changes in humidity. These forces occur every day and are constantly putting strain on the structure in excess of the vibration.

USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

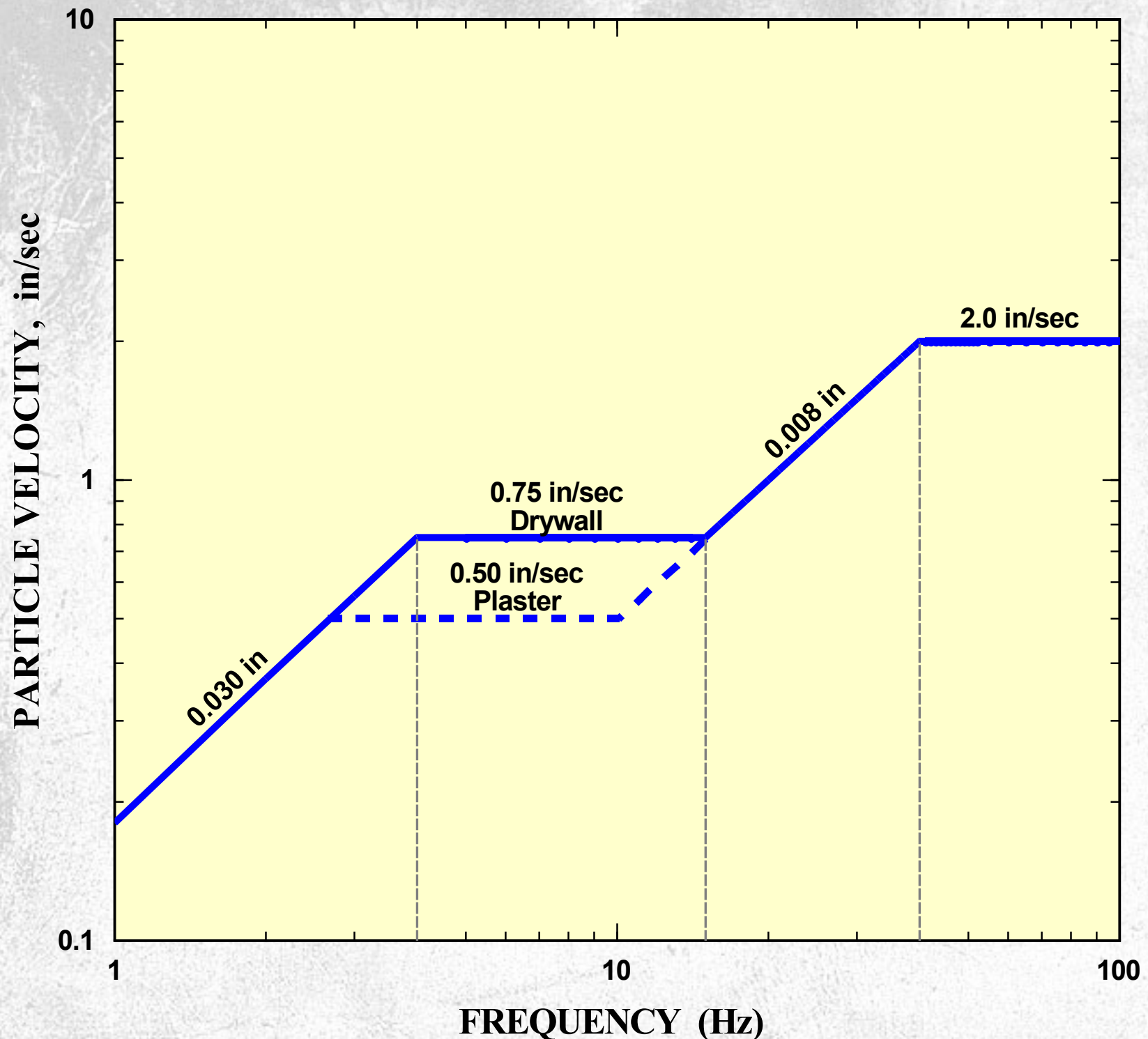
In this study, damage from actual surface-mine production blasting was observed in 76 residences for 219 production blasts. This data along with damage data from six additional studies were combined with the historical data from Bulletin 656.

Ordinance 34 Limits

In North America, safe vibration standards are based on scientific studies conducted by the U.S. Bureau of Mines (USBM). These ground and air vibration limits are based on scaled distance, peak particle velocity, air pressure and frequency, and are derived from the best science available.

Complying with these standards will prevent even cosmetic cracking in structures. Furthermore, slightly exceeding these standards does not necessarily mean that a structure will be harmed.

USBM & Ordinance 34 Limits



The USBM (U.S. Bureau of Mines) Z-curve is the standard used to assess safe ground vibration.

Drywall is the most common building material used in new residential construction.

Each particle velocity must correspond with a frequency to accurately plot on this graph. The higher the frequency, the higher allowance of peak particle velocity.

USBM & Ordinance 34 Limits

For ground vibrations, the standard is a function of frequency and peak particle velocity. At low frequencies, the limit is 0.75 inches per second (in./sec.). At high frequencies, the limit is up to 2.0 in./sec.

For air vibrations, the standard is a function of pressure that is most often reported as decibels with a limit of 134 decibels (dB).

Vibration Monitoring



- Vibra-Tech is the independent third-party technical expert retained by the City of Garden Ridge to monitor all blasting activity.
- The monitoring involves a minimum of six (6) and a maximum of nine (9) seismographs that surround the Hanson Servtex Quarry. The City of Garden Ridge determines where the monitors will be located.
- Each seismograph measures peak particle velocity, frequency, and air overpressure for every production blast.

Vibration & Air Overpressure Monitoring

- Each seismograph is calibrated annually to ensure they are operating within the required specifications.
- Air particulate monitor(s) and noise monitor(s) are used at the discretion of the City of Garden Ridge.
- All monitoring data is available for public inspection at City Hall, and is available on the City of Garden Ridge's website.

Citizen Blasting Complaints – Alternative Dispute Resolution (ADR) Process Summary

- There is a voluntary non-binding dispute resolution process available for property owners within the City of Garden Ridge to address certain blasting damage concerns.
- Claims of property damage are reviewed by an independent technical panel.
- Claims are limited to physical property damage <\$10,000
- The process is administered and paid for by Hanson.
- Please refer to Attachment B of [Ordinance 34](#) (link) for further details

ADR Process Summary

- Step 1 – Initiation of a claim
 - Submit an on-line claim form describing the alleged damage, when it occurred, and the claimed compensation amount.
- Step 2 – Preliminary process
 - Hanson will meet with the property owner to inspect and discuss the alleged damage and amount of compensation sought.
 - A technical damage claim assessment may be completed as warranted.
 - Hanson will attempt to resolve the issue with the property owner, and if the property owner, if not satisfied, may request a hearing.

ADR Process Summary

- Step 3 – Hearing
 - Within 15 days of the request for a hearing, the independent panel of experts will determine whether the complaint meets the minimum scientific requirements and thereby qualifies for a hearing.
 - The minimum scientific requirements are specified in Ordinance 34.
 - The hearing will be conducted within 30 days of the complaint and conducted by a panel of three independent industry technical experts.
 - The panel will meet quarterly to hear qualified complaints.
- Step 4 – Resolution
 - The panel will make their determination on the merits of the claim based solely on its scientific merits.
 - Hanson and the property owner may resolve the complaint at any time during this ADR process.

Who can I contact for further information?



Vibra-Tech Inc.

texas@vibratechinc.com

512-442-6464

Hanson Aggregates LLC – Servtex Quarry

Lalit.Bhatnagar@lehighhanson.com

972-814-4122

[Ordinance 34](#) (link)

Future Agenda Items

Quarry Commission

January 11, 2021
Regular Meeting

- 12 days before Meeting (12/28/20) Commission and Staff items are due
- 10 days before Meeting (12/30/20) City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
- 7 days before Meeting (1/04/21) Post Agenda on bulletin board and Commission will receive packet.
(allowing a day and half for corrections and to request additional information to be added)
- 4 days before Meeting (1/07/21) Post Agenda Packet to CivicClerk
- 3 days before Meeting (1/08/21) (72 hours) – Local Government Code requirement for posting

City Council = Red

Impact Fee Committee = Pink

Quarry Commission = Purple

Planning & Zoning = Green

Water Commission = Blue

Wildlife Management Advisory Commission = Brown

City Holiday = Orange

Sun	Mon	Tues	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Approvals

1. Minutes 11-09-20

Public Hearings/Recommendations

Discussion/Reports

1. Monthly Blasting Analysis Data and Monitoring of Blasts
2. Citizen Blast Impact Reports
3. City Council Update
4. Ordinance No. 210-022018
5. Future Agenda Items
 - a. Commissioners' input

Education/Training Session

Executive Session

PENDING FUTURE AGENDA ITEMS

QUARRY COMMISSION

Name	PL	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires
Albert Haddad	1	Oct 15 Sept 17	Sept 17 Sept 19	Sept 19 Sept 21					
Johnell Holly	2	Sept 08 Sept 10	Sep 10 Sept 12	Sep 12 Sept 14	Sept 14 Sept 16	Sept 16 Sept 18	Sept 18 Sept 20	Oct 20 Sept 22	
Jerry Barucky	3	Sep 14 Sept 16	Sept 16 Sept 18	Sept 18 Sept 20	Oct 20 Sept 22				
Wayne Mudge	4	Oct 07 Sept 09	Sept 09 Sept 11	Sept 11 Sept 13	Sept 13 Sept 15	Sept 17 Sept 19	Sept 19 Sept 21		
Armando Diaz	5	Sept 19 Sept 21 (P)							
Mike Shands	6	Jan 14 Sept 15	Sept 15 Sept 17	Sept 17 Sept 19	Sept 19 Sept 21				
Vacant	7	? Sept 22							

(P)= Partial term of less than ½ the term remaining