



City of Garden Ridge

“A way of life, not just a place to live”

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

The Garden Ridge Quarry Commission will meet in a regular session on Monday, March 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 January 13, 2020, Quarry Commission Regular Meeting.
- b) Discussions/Reports/Updates
 1. Monthly Hanson Quarry blasting analysis data reported by Vibratex 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 currently located at the Baker residence.

4. Items applicable to the Quarry Commission discussed at the February 5, 2020, and March 4, 2020, City Council Regular Meetings.
5. Update on Grapevine articles.
6. 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. Discuss and accept the resignation of Commissioner Holloway.
 - ii. Interview possible candidates for the Quarry Commission Place 5 vacancy (term expiring September 30, 2021).
 - iii. Make recommendation to City Council for appointment of Commissioner.
 - iv. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.

c) Education/Training

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

d) Future Agenda Items

1. Commissioners input on agenda items.
2. Announce the date, time, and location for next meeting (May 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 4:00 p.m. on March 2, 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, JANUARY 13, 2020, 6:00 P.M.

Commissioners Present:

Chair Johnell Holly
Vice-Chair Jerry Barucky
Commissioner Mark DuBois
Commissioner Mike Shands
Commissioner Albert Haddad
Commissioner Richard Holloway
Councilmember Bryan Lantzy, Ex-officio

Commissioners Absent:

Commissioner Wayne Mudge (Excused Absence)

City Staff Present:

Nancy Cain, City Administrator
Marisa Spencer, City Secretary
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, January 13, 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 September 9, 2019, Quarry Commission Regular Meeting.

Motion: A motion was made by Vice-Chair Barucky, seconded by Commissioner DuBois, to approve the September 9, 2019, 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.

Randy Payne, Vibra-Tech, stated Geoffrey Rigsby no longer works for Vibra-Tech and Nicholas Reittinger, South West Regional Manager, will be attending the Quarry Commission meetings.

Randy Payne, Vibra-Tech, presented and discussed the September blast analysis. He stated that 10 shots occurred during the month of September and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.065 occurred on September 6th at the Warden Residence and the highest Air Overpressure of 112 dB occurred on September 18th at the Holly Residence.

Randy Payne, Vibra-Tech, presented and discussed the October blast analysis. He stated that 11 shots occurred during the month of October and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.058 occurred on October 3rd at the Warden Residence and the highest Air Overpressure of 113 dB occurred on October 3rd at the Holly Residence.

Randy Payne, Vibra-Tech, presented and discussed the November blast analysis. He stated that 9 shots occurred during the month of November and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.090 occurred on November 6th at the Holly Residence and the highest Air Overpressure of 115 dB occurred on November 6th at the Warden Residence.

Randy Payne, Vibra-Tech, presented and discussed the December blast analysis. He stated that 15 shots occurred during the month of December and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.108 occurred on December 12th at the Warden Residence and the highest Air Overpressure of 109 dB occurred on December 19th at the Warden Residence and on December 26th at the Holly Residence.

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.

Randy Payne, Vibra-Tech, discussed the citizen blast reports received for the month of September through December. He reviewed the citizen concerns and relevant blasts from Armando Diaz, Kevin Heyburn, Steve Tyo, Erika Dozal-Rodriguez, and Jerry Mills.

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 agreed to leave the roving monitor at the Baker residence.

4. City Council Regular Meeting on October 2, 2019, November 6, 2019, December 4, 2019, and January 2, 2020, City Council Regular Meetings.

Chair Holly provided the Commission with an update on the items discussed at the October, November, December, and January City Council Regular Meetings and spoke regarding HB 2439 impacting new construction and the potential safety concerns.

5. Update on future education/training sessions and Grapevine articles.

The Commission requested a Commission Vacancy notice go out in the Grapevine.

Chair Holly discussed the new Quarry educational materials. Marisa Spencer, City Secretary, requested the Commission review the materials and submit all questions to City Staff for review.

Lalit Bhatnagar, Regional Director of Environmental Safety and Health Division, discussed the purpose of the educational materials.

6. 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. Discuss and accept the resignation of Commissioner Holloway.

ii. Interview possible candidates for the Quarry Commission Place 5 vacancy (term expiring September 30, 2021).

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

Chair Holly stated that neither of the candidates were in the audience to interview. Commissioner Holloway requested to withdraw his letter of resignation until an interview of candidates can be conducted.

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

Commissioner Haddad stated his intent to submit his letter of resignation due to medical reasons once the Commission has candidates interested in interviewing.

c) Future Agenda Items

1. Commissioners input for items on upcoming agendas.

None at this time.

2. Announcement of next Quarry Commission Regular Meeting.

Chair Holly announced the next Quarry Commission Regular Meeting will be held on Monday, March 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 Commissioner Haddad, seconded by Commissioner DuBois, to adjourn. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, January 13, 2020, Quarry Commission Regular Meeting was adjourned at 6:56 p.m. by Chair Holly.

ATTEST:

Johnell Holly
Chair

Kat Balbi
Assistant City Secretary



February 4, 2020

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 January 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, Mike Shands 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
Regional Manager

cc: Sean Steagall, Hanson – Servtex



01/30/2020 Upper West 3E

Michels

Baker

City Property Line

Warden
Warden Property Line

Holly

Garden Ridge

01/23/2020 Base Pit East Face

01/08/2020 Base Pit S. Wall B

01/27/2020 Legacy

01/29/2020 Stripping

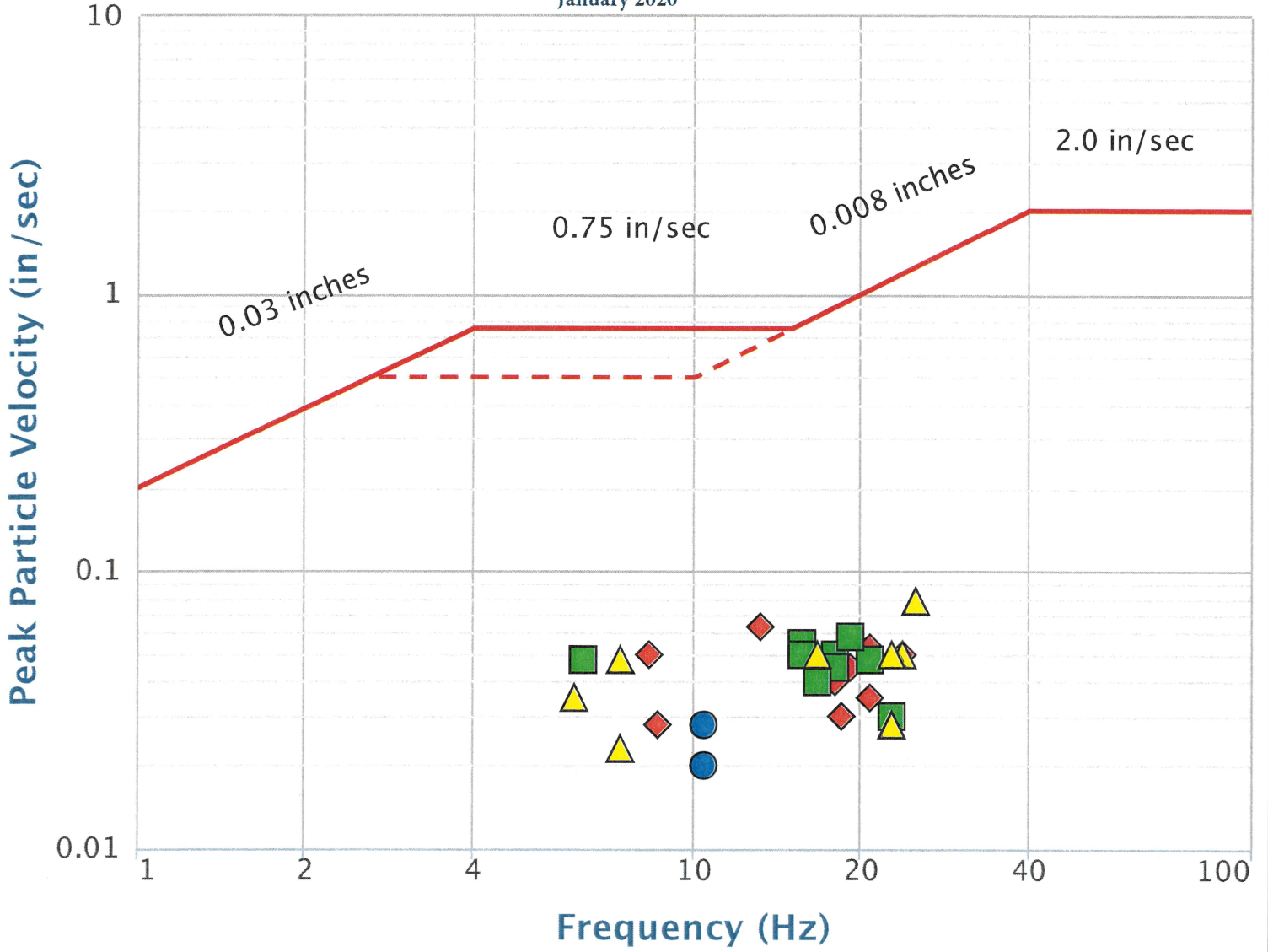
01/07/2020 Combined S. Wall A

01/14/2020 Combined S. Wall

01/31/2020 South Wall G

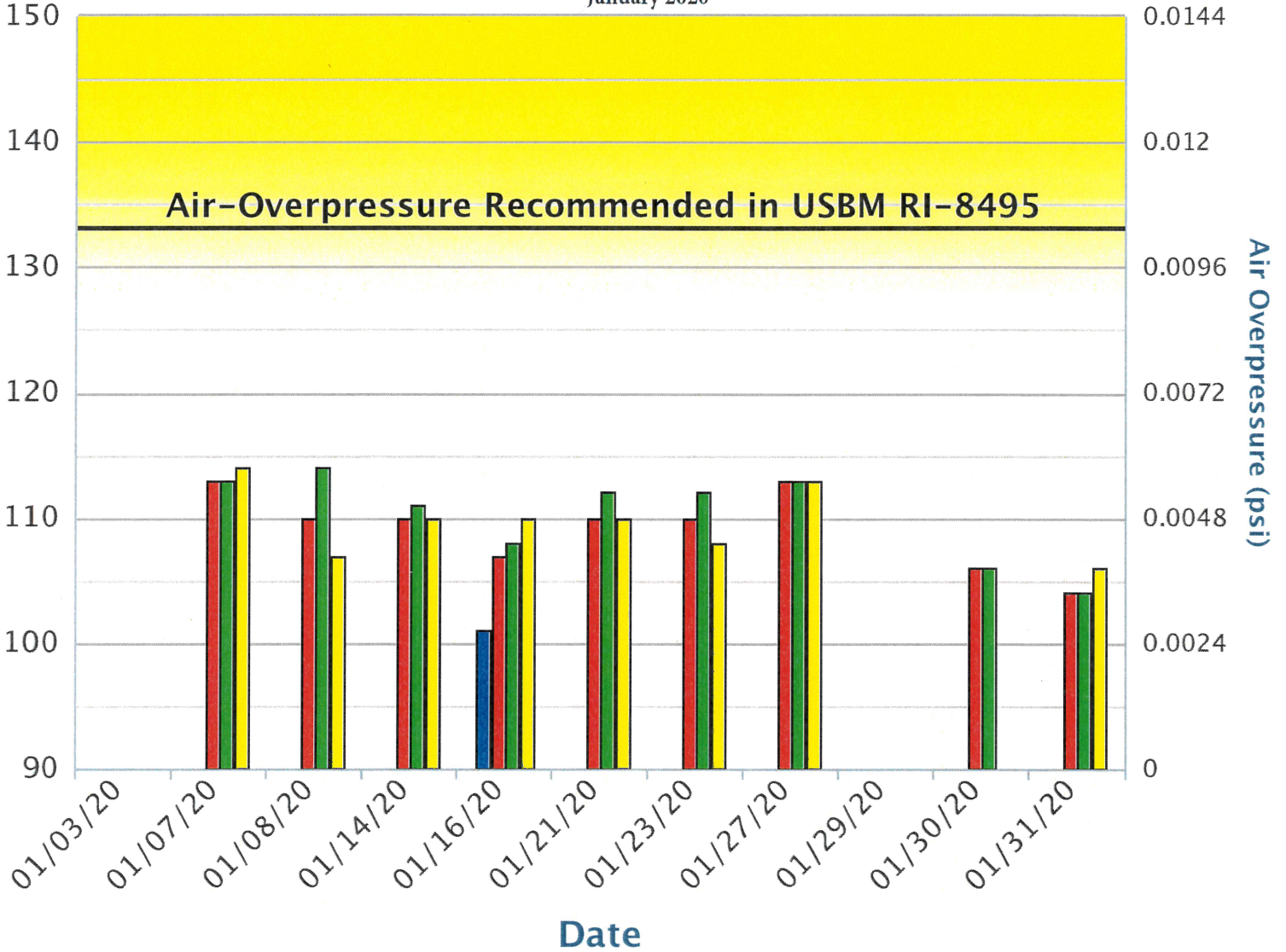
01/03/2020 Upper S. East B

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



- Baker Residence
- ◆ Warden Residence
- Warden Prop Line
- ▲ Holly Residence

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



■ Baker Residence ■ Warden Residence ■ Warden Prop Line ■ Holly Residence

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JANUARY 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
01/03/20	01/03/2020 Upper S. East B	N 29° 38' 7.81" W 098° 16' 26.69"	SUNNY 56° N 14	11:30	NT	NT	NT	2966	85.00	10,776	Baker Residence
01/03/20	01/03/2020 Upper S. East B	N 29° 38' 7.81" W 098° 16' 26.69"	SUNNY 56° N 14	11:30	NT	NT	NT	2966	85.00	7,823	City Property Line
01/03/20	01/03/2020 Upper S. East B	N 29° 38' 7.81" W 098° 16' 26.69"	SUNNY 56° N 14	11:30	NT	NT	NT	2966	85.00	5,307	Holly - 9916 Trophy Oaks
01/03/20	01/03/2020 Upper S. East B	N 29° 38' 7.81" W 098° 16' 26.69"	SUNNY 56° N 14	11:30	NT	NT	NT	2966	85.00	10,741	Michels - 9118 Tuscan Hills
01/03/20	01/03/2020 Upper S. East B	N 29° 38' 7.81" W 098° 16' 26.69"	SUNNY 56° N 14	11:30	NT	NT	NT	2966	85.00	6,638	Warden - 21375 Gunther Grove
01/07/20	01/07/2020 Combined S. Wall A	N 29° 38' 3.45" W 098° 16' 37.92"	SUNNY 57° N 10	11:53	NT	NT	NT	1289	773.00	9,919	Baker Residence
01/07/20	01/07/2020 Combined S. Wall A	N 29° 38' 3.45" W 098° 16' 37.92"	SUNNY 57° N 10	11:53	NT	NT	NT	1289	773.00	6,960	City Property Line
01/07/20	01/07/2020 Combined S. Wall A	N 29° 38' 3.45" W 098° 16' 37.92"	SUNNY 57° N 10	11:53	0.05	23.8	114	1289	773.00	4,426	Holly - 9916 Trophy Oaks
01/07/20	01/07/2020 Combined S. Wall A	N 29° 38' 3.45" W 098° 16' 37.92"	SUNNY 57° N 10	11:53	NT	NT	NT	1289	773.00	10,016	Michels - 9118 Tuscan Hills
01/07/20	01/07/2020 Combined S. Wall A	N 29° 38' 3.45" W 098° 16' 37.92"	SUNNY 57° N 10	11:53	0.05	23.8	113	1289	773.00	5,816	Warden - 21375 Gunther Grove
01/08/20	01/08/2020 Base Pit S. Wall B	N 29° 38' 5.90" W 098° 16' 53.70"	SUNNY 71° N 8	13:26	NT	NT	NT	1232	812.00	8,434	Baker Residence
01/08/20	01/08/2020 Base Pit S. Wall B	N 29° 38' 5.90" W 098° 16' 53.70"	SUNNY 71° N 8	13:26	NT	NT	NT	1232	812.00	5,451	City Property Line
01/08/20	01/08/2020 Base Pit S. Wall B	N 29° 38' 5.90" W 098° 16' 53.70"	SUNNY 71° N 8	13:26	0.023	7.4	107.0	1232	812.00	2,907	Holly - 9916 Trophy Oaks
01/08/20	01/08/2020 Base Pit S. Wall B	N 29° 38' 5.90" W 098° 16' 53.70"	SUNNY 71° N 8	13:26	NT	NT	NT	1232	812.00	8,572	Michels - 9118 Tuscan Hills
01/08/20	01/08/2020 Base Pit S. Wall B	N 29° 38' 5.90" W 098° 16' 53.70"	SUNNY 71° N 8	13:26	0.030	18.5	110.0	1232	812.00	4,392	Warden - 21375 Gunther Grove
01/14/20	01/14/2020 Combined S. Wall F	N 29° 37' 58.14" W 098° 16' 52.65"	PARTLY CLOUDY 77° S3	13:29	NT	NT	NT	966	752.00	8,855	Baker Residence

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

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HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JANUARY 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
01/14/20	01/14/2020 Combined S. Wall F	N 29° 37' 58.14" W 098° 16' 52.65"	PARTLY CLOUDY 77° S3	13:29	NT	NT	NT	966	752.00	5,920	City Property Line
01/14/20	01/14/2020 Combined S. Wall F	N 29° 37' 58.14" W 098° 16' 52.65"	PARTLY CLOUDY 77° S3	13:29	0.035	6.1	110.0	966	752.00	3,429	Holly - 9916 Trophy Oaks
01/14/20	01/14/2020 Combined S. Wall F	N 29° 37' 58.14" W 098° 16' 52.65"	PARTLY CLOUDY 77° S3	13:29	NT	NT	NT	966	752.00	9,149	Michels - 9118 Tuscan Hills
01/14/20	01/14/2020 Combined S. Wall F	N 29° 37' 58.14" W 098° 16' 52.65"	PARTLY CLOUDY 77° S3	13:29	0.050	8.3	110.0	966	752.00	4,872	Warden - 21375 Gunther Grove
01/16/20	01/16/2020 Base Pit S. Wall C	N 29° 38' 4.56" W 098° 16' 57.73"	CLOUDY 72° E 13	11:31	0.02	10.4	101	1118	801.00	8,216	Baker Residence
01/16/20	01/16/2020 Base Pit S. Wall C	N 29° 38' 4.56" W 098° 16' 57.73"	CLOUDY 72° E 13	11:31	NT	NT	NT	1118	801.00	5,262	City Property Line
01/16/20	01/16/2020 Base Pit S. Wall C	N 29° 38' 4.56" W 098° 16' 57.73"	CLOUDY 72° E 13	11:31	0.048	7.4	110	1118	801.00	2,737	Holly - 9916 Trophy Oaks
01/16/20	01/16/2020 Base Pit S. Wall C	N 29° 38' 4.56" W 098° 16' 57.73"	CLOUDY 72° E 13	11:31	NT	NT	NT	1118	801.00	8,426	Michels - 9118 Tuscan Hills
01/16/20	01/16/2020 Base Pit S. Wall C	N 29° 38' 4.56" W 098° 16' 57.73"	CLOUDY 72° E 13	11:31	0.056	20.8	107	1118	801.00	4,166	Warden - 21375 Gunther Grove
01/21/20	01/21/2020 South Wall A	N 29° 38' 4.69" W 098° 16' 34.65"	SUNNY 59° SE 7	14:02	NT	NT	NT	1555	612.00	10,165	Baker Residence
01/21/20	01/21/2020 South Wall A	N 29° 38' 4.69" W 098° 16' 34.65"	SUNNY 59° SE 7	14:02	NT	NT	NT	1555	612.00	7,206	City Property Line
01/21/20	01/21/2020 South Wall A	N 29° 38' 4.69" W 098° 16' 34.65"	SUNNY 59° SE 7	14:02	0.05	22.7	110	1555	612.00	4,674	Holly - 9916 Trophy Oaks
01/21/20	01/21/2020 South Wall A	N 29° 38' 4.69" W 098° 16' 34.65"	SUNNY 59° SE 7	14:02	NT	NT	NT	1555	612.00	10,222	Michels - 9118 Tuscan Hills
01/21/20	01/21/2020 South Wall A	N 29° 38' 4.69" W 098° 16' 34.65"	SUNNY 59° SE 7	14:02	0.035	20.8	110	1555	612.00	6,048	Warden - 21375 Gunther Grove
01/23/20	01/23/2020 Base Pit East Face	N 29° 38' 9.69" W 098° 16' 47.55"	SUNNY 68° E 8	14:32	NT	NT	NT	1430	652.00	8,941	Baker Residence
01/23/20	01/23/2020 Base Pit East Face	N 29° 38' 9.69" W 098° 16' 47.55"	SUNNY 68° E 8	14:32	NT	NT	NT	1430	652.00	5,984	City Property Line

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JANUARY 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
01/23/20	01/23/2020 Base Pit East Face	N 29° 38' 9.69" W 098° 16' 47.55"	SUNNY 68° E 8	14:32	0.078	25	108	1430	652.00	3,461	Holly - 9916 Trophy Oaks
01/23/20	01/23/2020 Base Pit East Face	N 29° 38' 9.69" W 098° 16' 47.55"	SUNNY 68° E 8	14:32	NT	NT	NT	1430	652.00	8,978	Michels - 9118 Tuscan Hills
01/23/20	01/23/2020 Base Pit East Face	N 29° 38' 9.69" W 098° 16' 47.55"	SUNNY 68° E 8	14:32	0.045	19.2	110	1430	652.00	4,813	Warden - 21375 Gunther Grove
01/27/20	01/27/2020 Legacy	N 29° 38' 5.80" W 098° 16' 29.89"	SUNNY 67° S 4	13:59	NT	NT	NT	1384	1159.00	10,545	Baker Residence
01/27/20	01/27/2020 Legacy	N 29° 38' 5.80" W 098° 16' 29.89"	SUNNY 67° S 4	13:59	NT	NT	NT	1384	1159.00	7,588	City Property Line
01/27/20	01/27/2020 Legacy	N 29° 38' 5.80" W 098° 16' 29.89"	SUNNY 67° S 4	13:59	0.028	22.7	113	1384	1159.00	5,062	Holly - 9916 Trophy Oaks
01/27/20	01/27/2020 Legacy	N 29° 38' 5.80" W 098° 16' 29.89"	SUNNY 67° S 4	13:59	NT	NT	NT	1384	1159.00	10,559	Michels - 9118 Tuscan Hills
01/27/20	01/27/2020 Legacy	N 29° 38' 5.80" W 098° 16' 29.89"	SUNNY 67° S 4	13:59	0.04	17.9	113	1384	1159.00	6,417	Warden - 21375 Gunther Grove
01/29/20	01/29/2020 Stripping	N 29° 38' 5.54" W 098° 16' 28.03"	SUNNY 59° N 18	13:24	NT	NT	NT	2966	81.00	10,711	Baker Residence
01/29/20	01/29/2020 Stripping	N 29° 38' 5.54" W 098° 16' 28.03"	SUNNY 59° N 18	13:24	NT	NT	NT	2966	81.00	7,754	City Property Line
01/29/20	01/29/2020 Stripping	N 29° 38' 5.54" W 098° 16' 28.03"	SUNNY 59° N 18	13:24	NT	NT	NT	2966	81.00	5,228	Holly - 9916 Trophy Oaks
01/29/20	01/29/2020 Stripping	N 29° 38' 5.54" W 098° 16' 28.03"	SUNNY 59° N 18	13:24	NT	NT	NT	2966	81.00	10,720	Michels - 9118 Tuscan Hills
01/29/20	01/29/2020 Stripping	N 29° 38' 5.54" W 098° 16' 28.03"	SUNNY 59° N 18	13:24	NT	NT	NT	2966	81.00	6,581	Warden - 21375 Gunther Grove
01/30/20	01/30/2020 Upper West 3E	N 29° 38' 53.78" W 098° 17' 46.60"	CLEAR 49° NE 9	14:37	NT	NT	NT	1124	95.00	4,277	Baker Residence
01/30/20	01/30/2020 Upper West 3E	N 29° 38' 53.78" W 098° 17' 46.60"	CLEAR 49° NE 9	14:37	NT	NT	NT	1124	95.00	3,286	City Property Line
01/30/20	01/30/2020 Upper West 3E	N 29° 38' 53.78" W 098° 17' 46.60"	CLEAR 49° NE 9	14:37	NT	NT	NT	1124	95.00	3,021	Michels - 9118 Tuscan Hills

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HANSON - SERVTEX QUARRY
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JANUARY 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
01/30/20	01/30/2020 Upper West 3E	N 29° 38' 53.78" W 098° 17' 46.60"	CLEAR 49° NE 9	14:37	0.028	8.6	106	1124	95.00	3,173	Warden - 21375 Gunther Grove
01/30/20	01/30/2020 Upper West 3E	N 29° 38' 53.78" W 098° 17' 46.60"	CLEAR 49° NE 9	14:37	0.04	16.7	106	1124	95.00	2,916	Warden Property Line
01/31/20	01/31/2020 South Wall G	N 29° 37' 58.12" W 098° 16' 55.67"	SUNNY 72° S 7	14:20	0.028	10.4	89	1278	654.00	8,609	Baker Residence
01/31/20	01/31/2020 South Wall G	N 29° 37' 58.12" W 098° 16' 55.67"	SUNNY 72° S 7	14:20	NT	NT	NT	1278	654.00	5,679	City Property Line
01/31/20	01/31/2020 South Wall G	N 29° 37' 58.12" W 098° 16' 55.67"	SUNNY 72° S 7	14:20	0.05	16.7	106	1278	654.00	3,202	Holly - 9916 Trophy Oaks
01/31/20	01/31/2020 South Wall G	N 29° 37' 58.12" W 098° 16' 55.67"	SUNNY 72° S 7	14:20	NT	NT	NT	1278	654.00	8,928	Michels - 9118 Tuscan Hills
01/31/20	01/31/2020 South Wall G	N 29° 37' 58.12" W 098° 16' 55.67"	SUNNY 72° S 7	14:20	0.063	13.2	104	1278	654.00	4,648	Warden - 21375 Gunther Grove

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



March 4, 2020

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

VibraTechinc.com

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 February 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, Mike Shands 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.

A handwritten signature in black ink, appearing to be "N. Reitinger", written over a faint horizontal line.

Nicholas Reitinger
Area Manager

VibraTechinc.com

cc: Sean Steagall, Hanson – Servtex

02/07/2020 Upper West 31

Michels

Baker

Warden Property Line

City Property Line

Warden

Holly

Garden Ridge

02/28/2020 Aggie Pit Ramp 1

02/25/2020 Base Pit West Wall A

02/04/2020 Stripping A

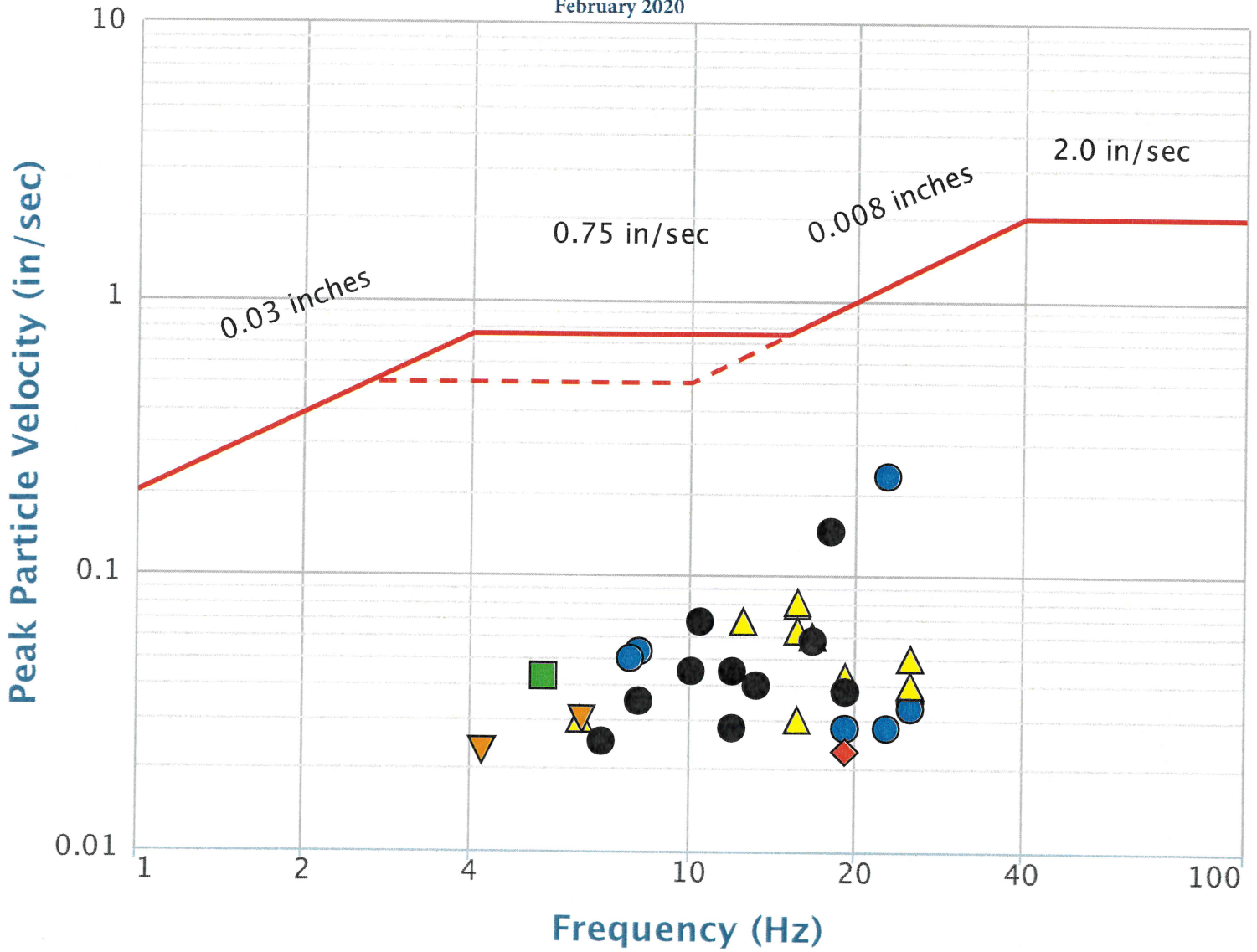
02/12/2020 Base Pit S. Wall A 02/18/2020 Legacy A

02/21/2020 Base Pit S. Wall 02/27/2020 South Wall B

02/06/2020 S. Wall A

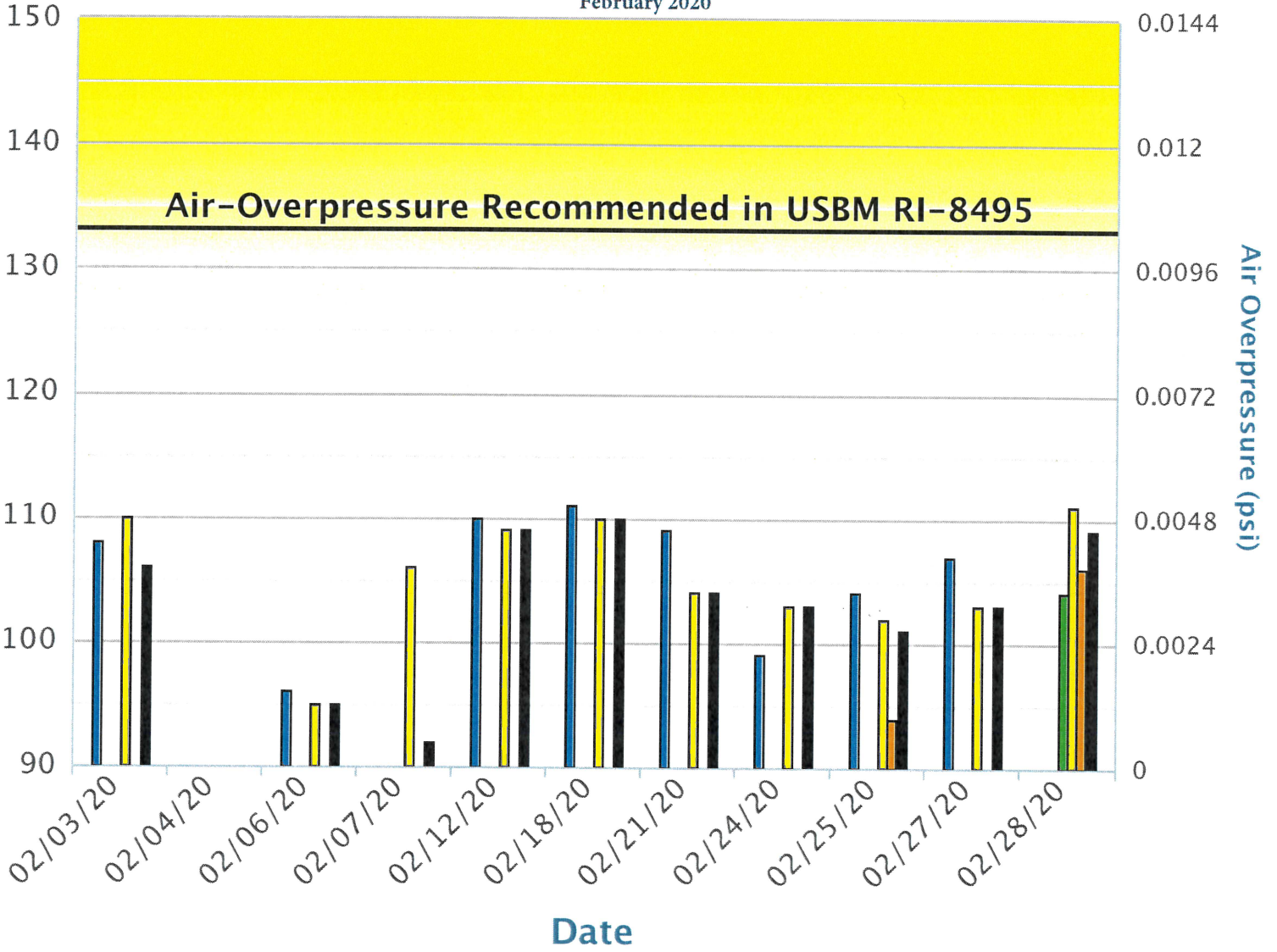
02/24/2020 South Wall E

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



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

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



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
FEBRUARY 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
02/03/20	02/03/2020 Base Pit S. Wall B	N 29° 38' 5.31" W 098° 16' 53.51"	CLOUDY 67° S 7	13:19	NT	NT	NT	1270	780.00	8,548	Baker Residence
02/03/20	02/03/2020 Base Pit S. Wall B	N 29° 38' 5.31" W 098° 16' 53.51"	CLOUDY 67° S 7	13:19	NT	NT	NT	1270	780.00	5,590	City Property Line
02/03/20	02/03/2020 Base Pit S. Wall B	N 29° 38' 5.31" W 098° 16' 53.51"	CLOUDY 67° S 7	13:19	0.028	19.2	108	1270	780.00	3,057	Holly - 9916 Trophy Oaks
02/03/20	02/03/2020 Base Pit S. Wall B	N 29° 38' 5.31" W 098° 16' 53.51"	CLOUDY 67° S 7	13:19	NT	NT	NT	1270	780.00	8,711	Michels - 9118 Tuscan Hills
02/03/20	02/03/2020 Base Pit S. Wall B	N 29° 38' 5.31" W 098° 16' 53.51"	CLOUDY 67° S 7	13:19	0.028	11.9	106	1270	780.00	4,470	Warden - 21375 Gunther Grove
02/04/20	02/04/2020 Stripping A	N 29° 38' 9.21" W 098° 16' 27.27"	CLOUDY 74° S 6	14:11	NT	NT	NT	2876	50.00	10,698	Baker Residence
02/04/20	02/04/2020 Stripping A	N 29° 38' 9.21" W 098° 16' 27.27"	CLOUDY 74° S 6	14:11	NT	NT	NT	2876	50.00	4,478	City Property Line
02/04/20	02/04/2020 Stripping A	N 29° 38' 9.21" W 098° 16' 27.27"	CLOUDY 74° S 6	14:11	NT	NT	NT	2876	50.00	5,238	Holly - 9916 Trophy Oaks
02/04/20	02/04/2020 Stripping A	N 29° 38' 9.21" W 098° 16' 27.27"	CLOUDY 74° S 6	14:11	NT	NT	NT	2876	50.00	10,642	Michels - 9118 Tuscan Hills
02/04/20	02/04/2020 Stripping A	N 29° 38' 9.21" W 098° 16' 27.27"	CLOUDY 74° S 6	14:11	NT	NT	NT	2876	50.00	6,557	Warden - 21375 Gunther Grove
02/06/20	02/06/2020 S. Wall A	N 29° 38' 4.34" W 098° 16' 34.68"	CLOUDY 54° W 23	12:38	NT	NT	NT	1376	614.00	10,171	Baker Residence
02/06/20	02/06/2020 S. Wall A	N 29° 38' 4.34" W 098° 16' 34.68"	CLOUDY 54° W 23	12:38	NT	NT	NT	1376	614.00	7,212	City Property Line
02/06/20	02/06/2020 S. Wall A	N 29° 38' 4.34" W 098° 16' 34.68"	CLOUDY 54° W 23	12:38	0.035	25	96	1376	614.00	4,680	Holly - 9916 Trophy Oaks
02/06/20	02/06/2020 S. Wall A	N 29° 38' 4.34" W 098° 16' 34.68"	CLOUDY 54° W 23	12:38	NT	NT	NT	1376	614.00	10,234	Michels - 9118 Tuscan Hills
02/06/20	02/06/2020 S. Wall A	N 29° 38' 4.34" W 098° 16' 34.68"	CLOUDY 54° W 23	12:38	0.038	19.2	95	1376	614.00	6,056	Warden - 21375 Gunther Grove
02/07/20	02/07/2020 Upper West 3I	N 29° 39' 2.81" W 098° 17' 47.37"	SUNNY 64° W 9	13:11	NT	NT	NT	952	63.00	4,810	Baker Residence

NT = No Trigger, <0.020ips.
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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
FEBRUARY 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
02/07/20	02/07/2020 Upper West 3I	N 29° 39' 2.81" W 098° 17' 47.37"	SUNNY 64° W 9	13:11	NT	NT	NT	952	63.00	4,177	City Property Line
02/07/20	02/07/2020 Upper West 3I	N 29° 39' 2.81" W 098° 17' 47.37"	SUNNY 64° W 9	13:11	NT	NT	NT	952	63.00	3,290	Michels - 9118 Tuscan Hills
02/07/20	02/07/2020 Upper West 3I	N 29° 39' 2.81" W 098° 17' 47.37"	SUNNY 64° W 9	13:11	0.035	8.1	92	952	63.00	4,086	Warden - 21375 Gunther Grove
02/07/20	02/07/2020 Upper West 3I	N 29° 39' 2.81" W 098° 17' 47.37"	SUNNY 64° W 9	13:11	0.03	6.3	106	952	63.00	3,824	Warden Property Line
02/12/20	02/12/2020 Base Pit S. Wall A	N 29° 38' 6.25" W 098° 16' 49.75"	CLOUDY 46° NW 14	11:49	NT	NT	NT	1712	732.00	8,839	Baker Residence
02/12/20	02/12/2020 Base Pit S. Wall A	N 29° 38' 6.25" W 098° 16' 49.75"	CLOUDY 46° NW 14	11:49	NT	NT	NT	1712	732.00	5,880	City Property Line
02/12/20	02/12/2020 Base Pit S. Wall A	N 29° 38' 6.25" W 098° 16' 49.75"	CLOUDY 46° NW 14	11:49	0.035	8.1	110	1712	732.00	3,346	Holly - 9916 Trophy Oaks
02/12/20	02/12/2020 Base Pit S. Wall A	N 29° 38' 6.25" W 098° 16' 49.75"	CLOUDY 46° NW 14	11:49	NT	NT	NT	1712	732.00	8,958	Michels - 9118 Tuscan Hills
02/12/20	02/12/2020 Base Pit S. Wall A	N 29° 38' 6.25" W 098° 16' 49.75"	CLOUDY 46° NW 14	11:49	0.045	10	109	1712	732.00	4,740	Warden - 21375 Gunther Grove
02/18/20	02/18/2020 Legacy A	N 29° 38' 5.67" W 098° 16' 29.31"	CLOUDY 72° N 6	12:28	NT	NT	NT	1536	628.00	10,598	Baker Residence
02/18/20	02/18/2020 Legacy A	N 29° 38' 5.67" W 098° 16' 29.31"	CLOUDY 72° N 6	12:28	NT	NT	NT	1536	628.00	7,641	City Property Line
02/18/20	02/18/2020 Legacy A	N 29° 38' 5.67" W 098° 16' 29.31"	CLOUDY 72° N 6	12:28	0.033	25	111	1536	628.00	5,114	Holly - 9916 Trophy Oaks
02/18/20	02/18/2020 Legacy A	N 29° 38' 5.67" W 098° 16' 29.31"	CLOUDY 72° N 6	12:28	NT	NT	NT	1536	628.00	10,611	Michels - 9118 Tuscan Hills
02/18/20	02/18/2020 Legacy A	N 29° 38' 5.67" W 098° 16' 29.31"	CLOUDY 72° N 6	12:28	0.04	13.2	110	1536	628.00	6,469	Warden - 21375 Gunther Grove
02/21/20	02/21/2020 Base Pit S. Wall C	N 29° 38' 4.05" W 098° 16' 57.48"	SUNNY 43° N 9	11:07	NT	NT	NT	1156	848.00	8,253	Baker Residence
02/21/20	02/21/2020 Base Pit S. Wall C	N 29° 38' 4.05" W 098° 16' 57.48"	SUNNY 43° N 9	11:07	NT	NT	NT	1156	848.00	5,300	City Property Line

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HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
FEBRUARY 2020**

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02/21/20	02/21/2020 Base Pit S. Wall C	N 29° 38' 4.05" W 098° 16' 57.48"	SUNNY 43° N 9	11:07	0.053	8.1	109	1156	848.00	2,778	Holly - 9916 Trophy Oaks
02/21/20	02/21/2020 Base Pit S. Wall C	N 29° 38' 4.05" W 098° 16' 57.48"	SUNNY 43° N 9	11:07	NT	NT	NT	1156	848.00	8,472	Michels - 9118 Tuscan Hills
02/21/20	02/21/2020 Base Pit S. Wall C	N 29° 38' 4.05" W 098° 16' 57.48"	SUNNY 43° N 9	11:07	0.058	16.7	104	1156	848.00	4,209	Warden - 21375 Gunther Grove
02/24/20	02/24/2020 South Wall E	N 29° 37' 59.83" W 098° 16' 49.68"	CLOUDY 67° N 13	12:15	NT	NT	NT	1004	704.00	9,041	Baker Residence
02/24/20	02/24/2020 South Wall E	N 29° 37' 59.83" W 098° 16' 49.68"	CLOUDY 67° N 13	12:15	NT	NT	NT	1004	704.00	6,095	City Property Line
02/24/20	02/24/2020 South Wall E	N 29° 37' 59.83" W 098° 16' 49.68"	CLOUDY 67° N 13	12:15	0.028	22.7	99	1004	704.00	3,581	Holly - 9916 Trophy Oaks
02/24/20	02/24/2020 South Wall E	N 29° 37' 59.83" W 098° 16' 49.68"	CLOUDY 67° N 13	12:15	NT	NT	NT	1004	704.00	9,281	Michels - 9118 Tuscan Hills
02/24/20	02/24/2020 South Wall E	N 29° 37' 59.83" W 098° 16' 49.68"	CLOUDY 67° N 13	12:15	0.025	6.9	103	1004	704.00	5,016	Warden - 21375 Gunther Grove
02/25/20	02/25/2020 Base Pit West Wall A	N 29° 38' 17.88" W 098° 17' 6.13"	SUNNY 55° N 24	10:55	0.023	19.2	86	704	222.00	7,172	Baker Residence
02/25/20	02/25/2020 Base Pit West Wall A	N 29° 38' 17.88" W 098° 17' 6.13"	SUNNY 55° N 24	10:55	0.023	4.2	94	704	222.00	4,237	City Property Line
02/25/20	02/25/2020 Base Pit West Wall A	N 29° 38' 17.88" W 098° 17' 6.13"	SUNNY 55° N 24	10:55	0.23	22.7	104	704	222.00	1,805	Holly - 9916 Trophy Oaks
02/25/20	02/25/2020 Base Pit West Wall A	N 29° 38' 17.88" W 098° 17' 6.13"	SUNNY 55° N 24	10:55	NT	NT	NT	704	222.00	7,144	Michels - 9118 Tuscan Hills
02/25/20	02/25/2020 Base Pit West Wall A	N 29° 38' 17.88" W 098° 17' 6.13"	SUNNY 55° N 24	10:55	0.145	17.9	101	704	222.00	3,028	Warden - 21375 Gunther Grove
02/27/20	02/27/2020 South Wall B	N 29° 38' 3.81" W 098° 16' 34.41"	SUNNY 56° W 7	13:34	NT	NT	NT	909	608.00	10,208	Baker Residence
02/27/20	02/27/2020 South Wall B	N 29° 38' 3.81" W 098° 16' 34.41"	SUNNY 56° W 7	13:34	NT	NT	NT	909	608.00	7,249	City Property Line
02/27/20	02/27/2020 South Wall B	N 29° 38' 3.81" W 098° 16' 34.41"	SUNNY 56° W 7	13:34	0.05	7.8	107	909	608.00	4,716	Holly - 9916 Trophy Oaks

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02/27/20	02/27/2020 South Wall B	N 29° 38' 3.81" W 098° 16' 34.41"	SUNNY 56° W 7	13:34	NT	NT	NT	909	608.00	10,278	Michels - 9118 Tuscan Hills
02/27/20	02/27/2020 South Wall B	N 29° 38' 3.81" W 098° 16' 34.41"	SUNNY 56° W 7	13:34	0.045	11.9	103	909	608.00	6,096	Warden - 21375 Gunther Grove
02/28/20	02/28/2020 Aggie Pit Ramp 1	N 29° 38' 43.40" W 098° 17' 34.30"	SUNNY 58° W 12	10:37	NT	NT	NT	1067	180.00	4,798	Baker Residence
02/28/20	02/28/2020 Aggie Pit Ramp 1	N 29° 38' 43.40" W 098° 17' 34.30"	SUNNY 58° W 12	10:37	0.03	6.4	106	1067	180.00	2,777	City Property Line
02/28/20	02/28/2020 Aggie Pit Ramp 1	N 29° 38' 43.40" W 098° 17' 34.30"	SUNNY 58° W 12	10:37	0.043	5.4	104	1067	180.00	4,041	Michels - 9118 Tuscan Hills
02/28/20	02/28/2020 Aggie Pit Ramp 1	N 29° 38' 43.40" W 098° 17' 34.30"	SUNNY 58° W 12	10:37	0.068	10.4	109	1067	180.00	2,127	Warden - 21375 Gunther Grove
02/28/20	02/28/2020 Aggie Pit Ramp 1	N 29° 38' 43.40" W 098° 17' 34.30"	SUNNY 58° W 12	10:37	0.063	15.6	111	1067	180.00	1,827	Warden Property Line

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City Administrator

From:
Sent: Thursday, December 26, 2019 5:22 PM
To: City Administrator
Cc: Assistant City Secretary;
Subject: Resignation from Quarry Commission

Nancy,

Per my discussion with Kat Balbi it is my understanding that there are presently several individuals interested in serving on the Quarry Commission. In my resignation letter submitted in August of this year I agreed to continue to serve on the Quarry Commission, subject to City Council approval, until such time as volunteers should become available to serve on the Quarry Commission. It has been my pleasure to have had the opportunity to serve on this Commission since April 2004. It is time to afford the same opportunity to others to serve on this Commission. Therefore please consider this letter my notice of resignation to the Quarry Commission, Place 5, effective Monday, January 13, 2020 which will allow me the opportunity to help interview potential new members at the January 13 meeting and help in the recommendation process for my replacement.

Thank you for the opportunity to work on this Commission and in a small way help contribute to the quality of life in the City of Garden Ridge.

Sincerely,

Richard Holloway
Quarry Commission, Place 5



CITY OF GARDEN RIDGE VOLUNTEER APPLICATION



Name (Please Print): ARMANDO DIAZ

Address: 21010 GUNTHER GRN, GARDEN RIDGE, TX 78266

Home Phone: _____ Email: _____

Cell Phone: 210 721 0112 Date of Birth (mm/dd/yyyy): 6/25/1957

Are you at least 18 years of age? YES NO If 'No', parent / guardian will need to contact City Hall to sign a 'Minors Work Release'.

What type of services are you able and willing to provide the city? Check all that apply below.

<p>Clerical</p> <input type="checkbox"/> Displays <input type="checkbox"/> Envelope Stuffing <input type="checkbox"/> Filing <input type="checkbox"/> Phone Duty <input type="checkbox"/> Proofreader <input type="checkbox"/> Translator	<p>Hands on Skills</p> <input type="checkbox"/> Carpentry <input type="checkbox"/> Landscape/ Gardening <input type="checkbox"/> Photography <input type="checkbox"/> Videography	<p>Computer/Software (High Proficiency)</p> <input checked="" type="checkbox"/> Microsoft Excel <input checked="" type="checkbox"/> Microsoft PowerPoint <input checked="" type="checkbox"/> Microsoft Word <input type="checkbox"/> Social Media <input type="checkbox"/> Website
<p>General</p> <input type="checkbox"/> Animal Services <input type="checkbox"/> FM 2252 Sign Updates	<p>Library</p> <input type="checkbox"/> Shelving, phone duty, check in/ out, etc.	<p>Specialty Skills</p> <input type="checkbox"/> Actor <input type="checkbox"/> Certified sign language interpreter <input type="checkbox"/> Communications <input checked="" type="checkbox"/> Internet Research
<p>Special Events (e.g. 4th July)</p> <input type="checkbox"/> Event Planning <input type="checkbox"/> Event Volunteer	<p>City Commissions / Committees</p> <input type="checkbox"/> Parks Committee <input type="checkbox"/> Planning & Zoning <input checked="" type="checkbox"/> Quarry Commission <input checked="" type="checkbox"/> Water Commission	<p>Future Activities</p> <input checked="" type="checkbox"/> Emergency Operations Center <input checked="" type="checkbox"/> Check On Your Neighbor (COYN)
<p>If so, which event? _____</p>		

What special skills, education, training, or interests do you have that may be beneficial to the city?

Indicate any languages (other than English) you can speak or write. CONVERSATIONAL SPANISH

Approximately, how many **hours** per week are you willing to do volunteer work? _____

What times of day and days of the week are you generally available? Check all that apply.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Morning							
Afternoon							
Evening							

- Are you volunteering; As an individual?
 As part of a group (school, company, etc.)?
If so, what group? _____
 To meet a court ordered Community Service requirement?

Volunteer Acknowledgements
I certify that my statements in this application and other required forms, are true, complete, and correct to the best of my knowledge.
I understand that the city may do verification on any information provided by me as part of the volunteer process.
I understand that, in some cases, the City may need to do a personal background check prior to my starting any volunteer work. In such cases, I will provide the City the additional information necessary complete that check.
I understand that if a medical emergency occurs while I am performing volunteer work, the City will seek emergency medical treatment on my behalf and will also notify the person I designate as my emergency contact.
I understand that, in response to the Texas Public Information Act, situations could arise where the city is required to release to the public information provided by me as part of the volunteer process.

By signing below, I confirm I have read and understand these acknowledgements.



Volunteer Signature

10/1/2019

Date

<p>Summary of Qualifications</p>	<p>Over twelve years experience in sourcing of equipment, instrumentation, materials and managing outsourced fabrication equipment used in the assembly of CO2 and Natural Gas Liquefaction (LNG), Natural Gas Pre-Treatment and Natural Gas Liquids (NGL) plants. Understanding of P&ID, PFD and piping isometrics and applicability to equipment conditions and requirements</p>
<p>Summary of Work Experience</p>	<p>2013 – May 2019 - Baker Hughes, a GE Company – Schertz TX</p> <p>Project Sourcing Leader</p> <ul style="list-style-type: none"> ▪ Close working relationship with commercial sales team to ensure proposal offering on project process equipment and materials captures all project requirements and conditions ▪ Review of equipment and material specifications with engineering to help ensure equipment requirements are properly aligned with project requirements and equipment is not burdened with additional unnecessary specifications which add costs ▪ Support manufacturing and project team on resolving issues with non-conforming products and involve supplier to ensure all non-conforming items are corrected or replaced to meet project specifications. ▪ Work closely with Sourcing Buyer Team and keep them informed of project equipment budgets, schedules and delivery requirements ▪ Negotiate commercial terms and conditions as well as payment terms with suppliers ▪ Strategic alignment and development of supplier base to ensure continued fulfillment of equipment and material orders. ▪ Manage supplier outsourcing for fabricated materials. Such as pipe and structural steel fabrication. <p>2007 – 2013 - Salof Refrigeration – Schertz, TX (GE Oil & Gas acquisition in June 2013)</p> <p>Procurement Department Manager</p> <ul style="list-style-type: none"> ▪ Planned, directed and coordinated sourcing of equipment and materials for fabrication of CO2 and LNG liquefaction plants with project manager and project engineer(s) ▪ Coordinated project procurement plan with Project stake holders including project manager, fabrication manager, I&E project manager and shipping and receiving ▪ Provided accounting system administrator support ▪ Negotiated cost and delivery of project materials with suppliers ▪ Developed and implemented purchasing and contract management instructions, policies, and procedures. ▪ Directed and coordinated activities of personnel engaged in buying materials, equipment, machinery, and supplies. <p>2006 – 2007 - Salof Refrigeration-New Braunfels TX</p> <p>Special Projects</p> <ul style="list-style-type: none"> ▪ Trained with Procurement Manager as a Buyer ▪ Expedited orders with suppliers and provided status to project stakeholder

<p>Summary of Work Experience (Cont'd)</p>	<ul style="list-style-type: none">▪ Negotiated cost and deliverables with suppliers▪ Assisted in development of CO2 Liquefaction Plant Design Specification Manual▪ OJT – Reading P&ID, Mass Flow, and PFD <p>1979 – 2006 - Federal Reserve Bank of Dallas Manager, High-Speed Currency Processing Analyst, Treasury Securities Technical Coordinator, Securities Various other roles and responsibilities</p> <p>1975 – 1979 - United States Marine Corps Honorable Discharge</p>
<p>Languages</p>	<p>English, Conversational Spanish</p>
<p>Education</p>	<p>1979 – 1981 University of Texas, El Paso Basic course work – no degree</p>

DRAFT AS OF 01/13/2020 MEETING

- The following presentation is for review and input by Quarry Commission. The related agenda item can be carried forward to the next agenda to allow the Commission ample opportunity to review, discussion and make recommendations.



Blasting Educational Materials

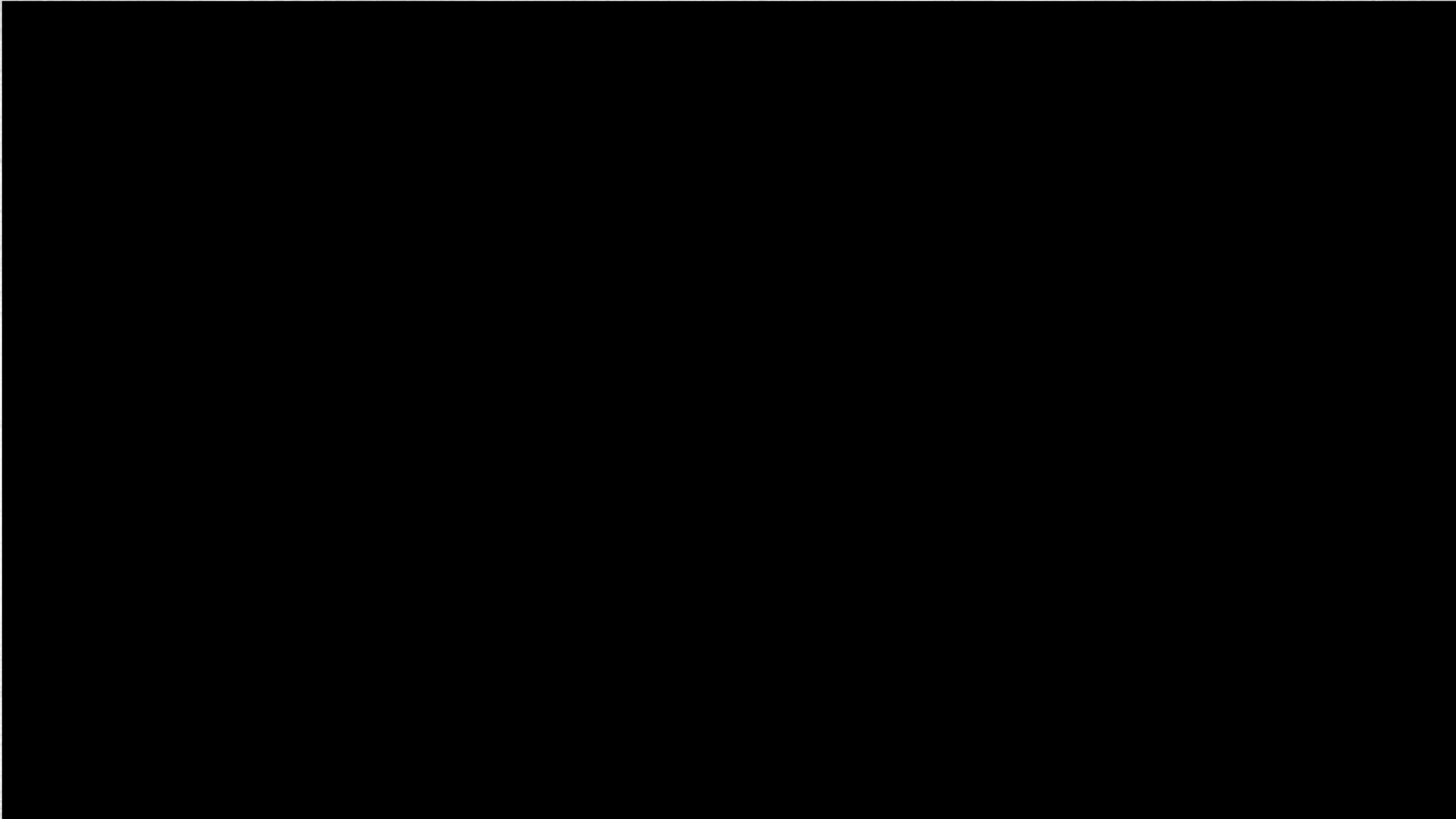
City of Garden Ridge, TX





ISEE Video - Understanding Vibrations from Blasting

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

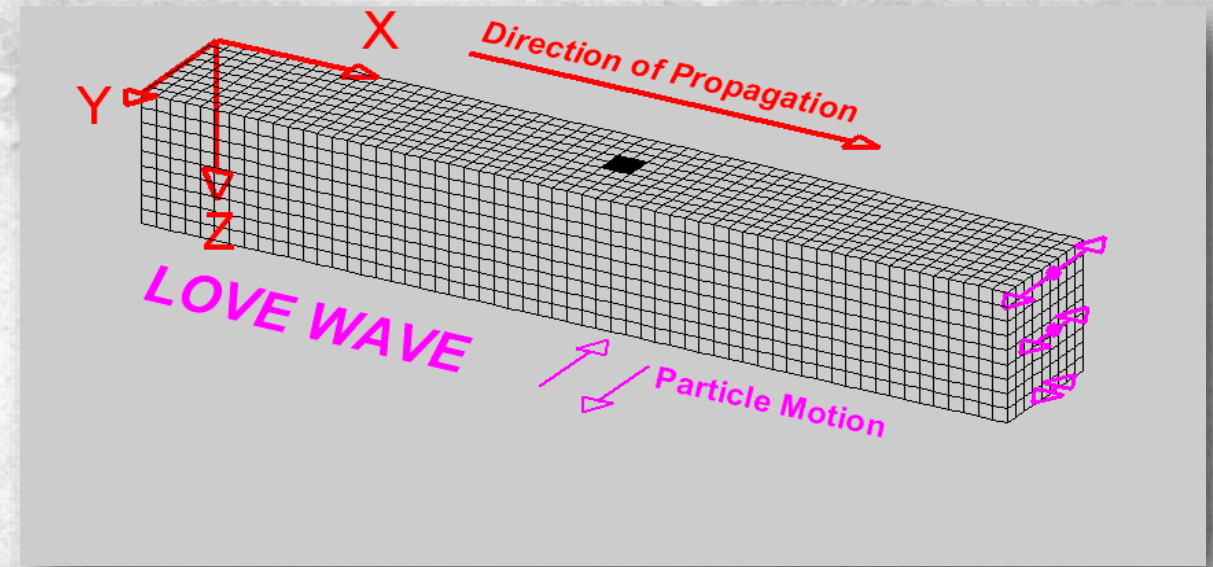
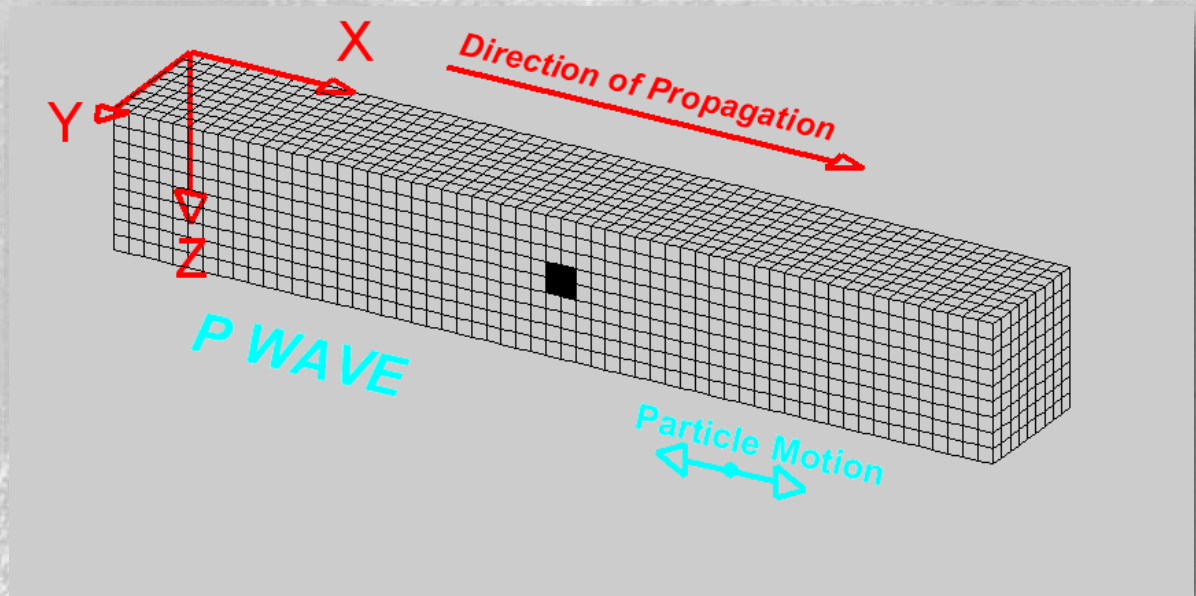


Why do I feel the Blasting?

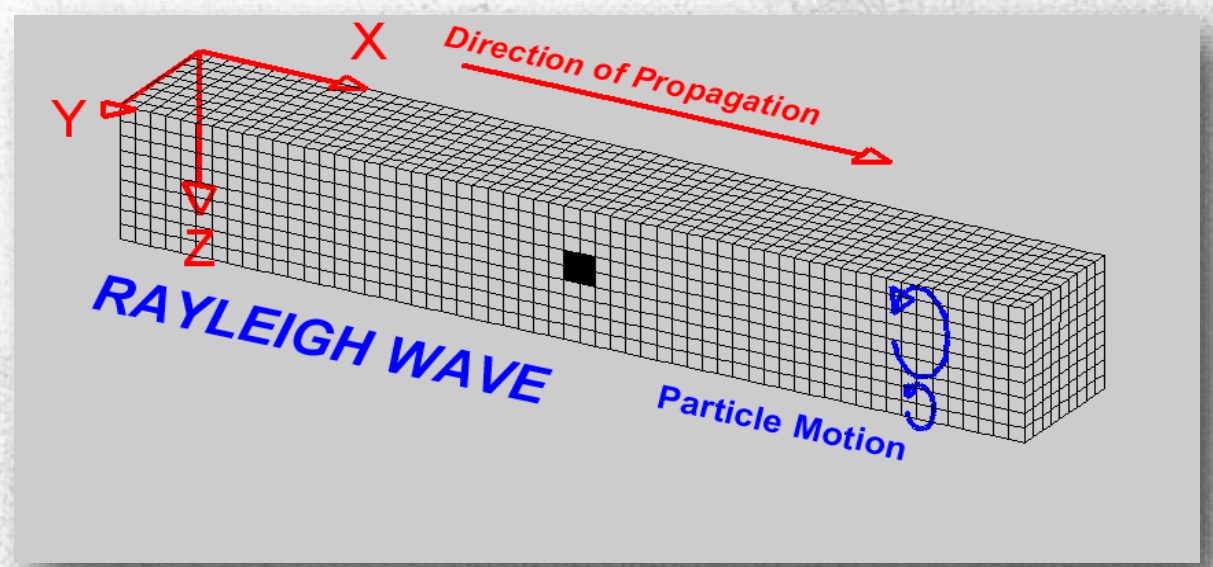
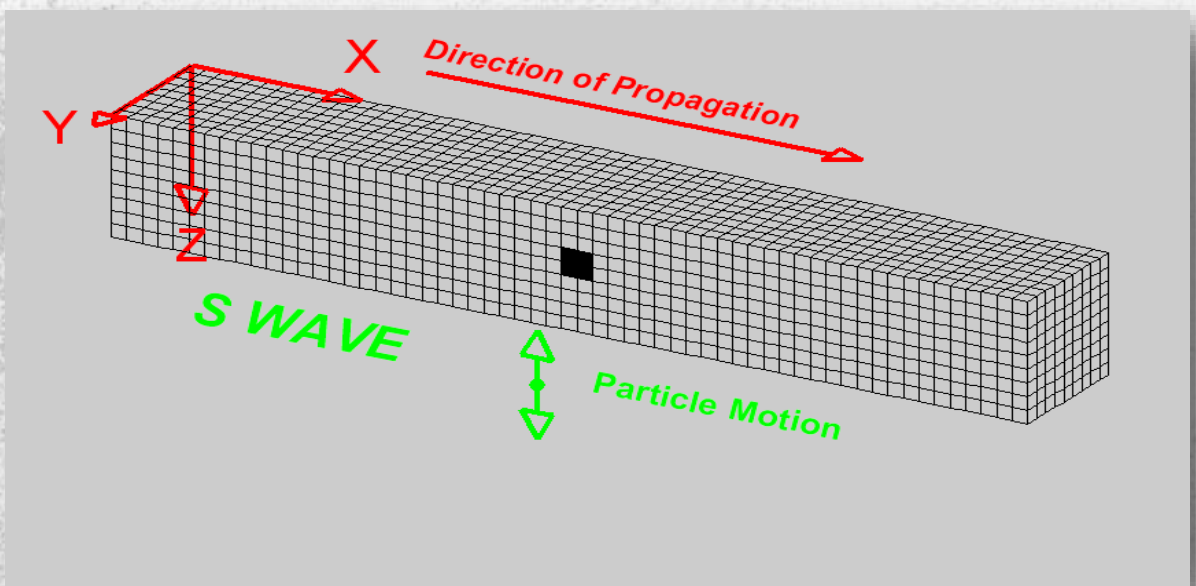
- Although most of the energy from a blast is used to break the rock, some of the energy will travel away from the blast site in the form of ground and airwaves.
- Each of these ground and airwaves can cause your house to vibrate or shake.
- Because humans are very sensitive to all vibrations, it is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

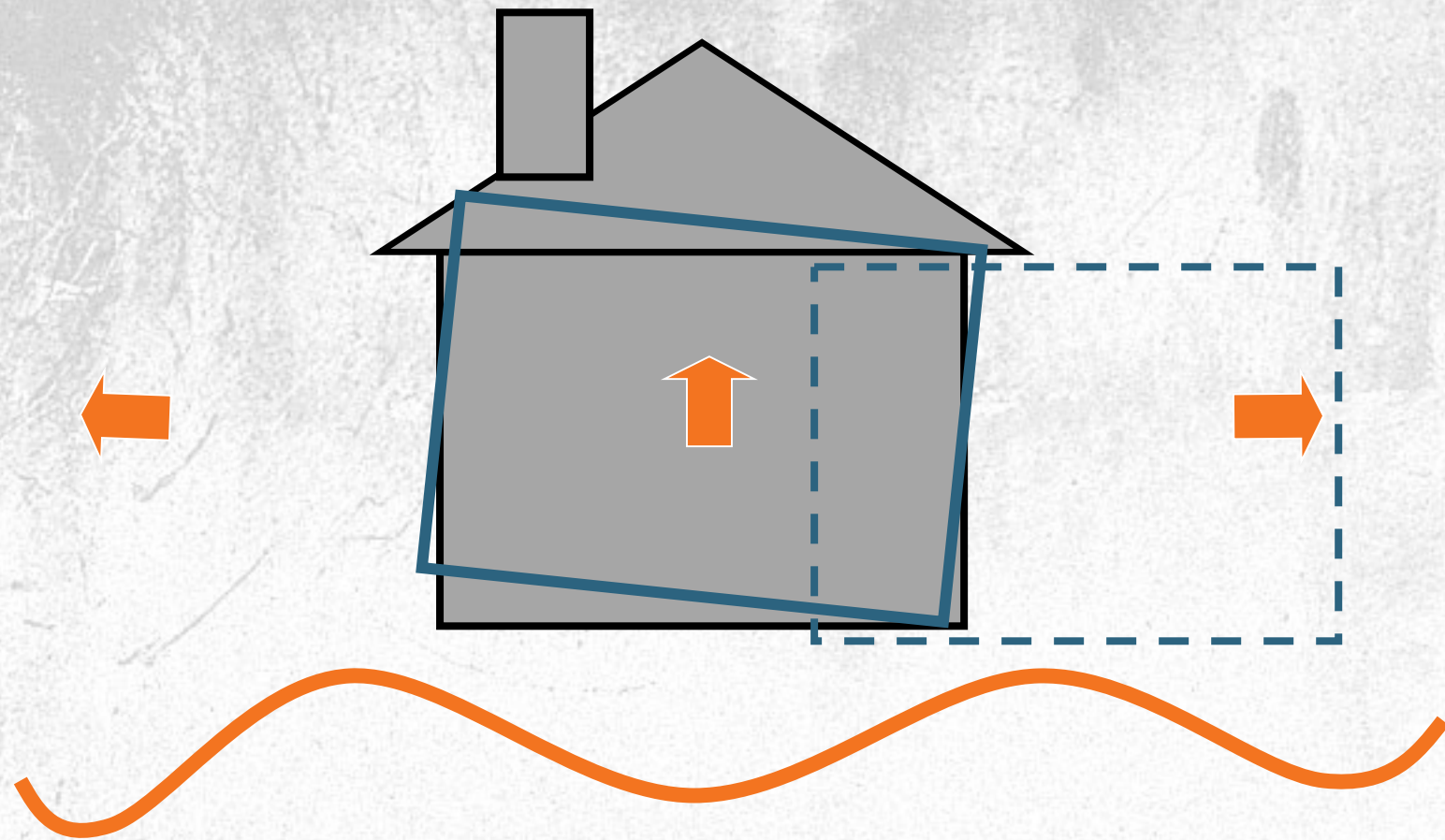
- How a blast feels depends on the ground or airwaves that reach your house. The airwaves are influenced by the type of blast, the distance from the blast and the amount of explosives used in the blast. All blasting is designed and conducted by professionals with years of hands-on experience.
- Where 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.



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

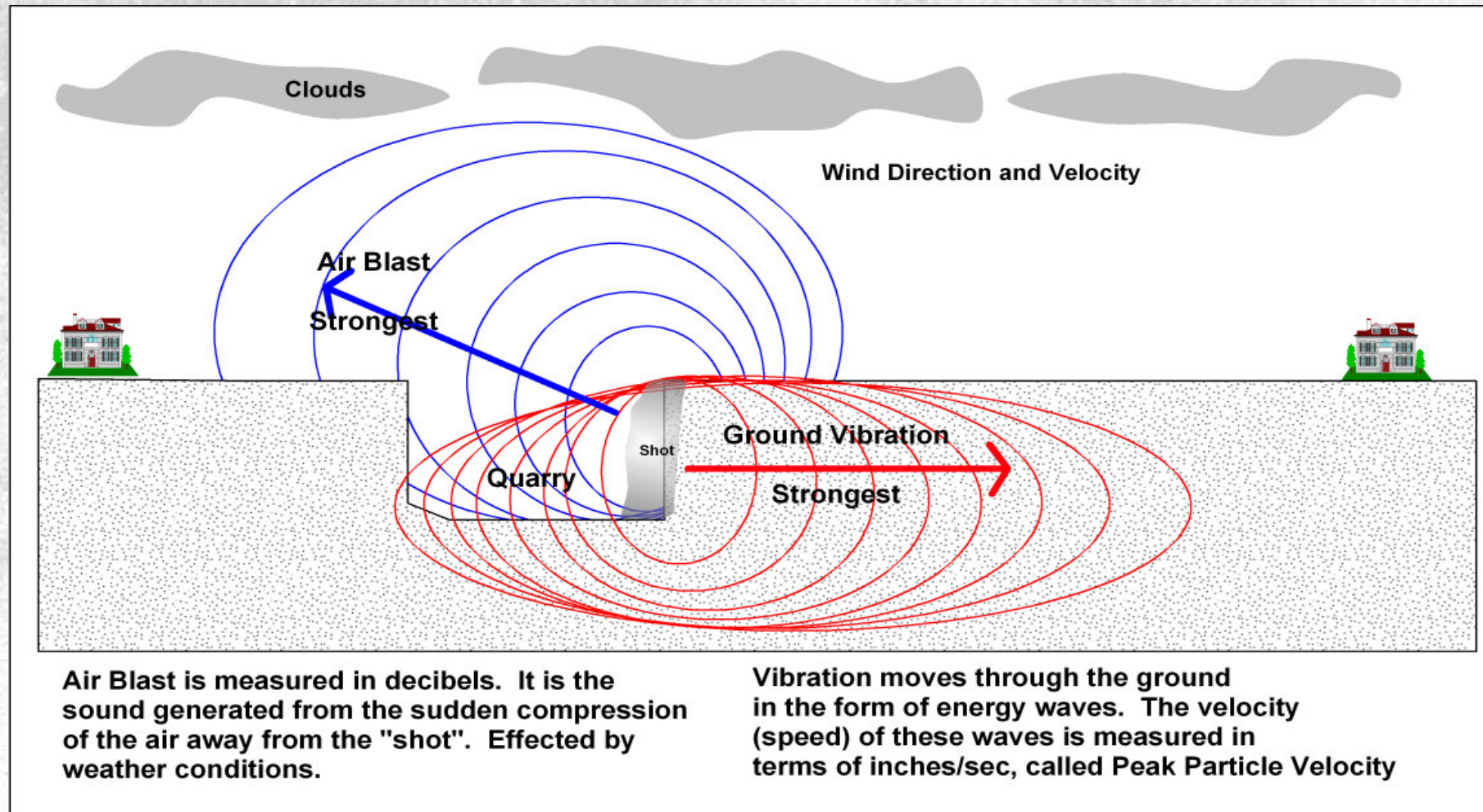
Reduce ground vibration by half and you reduce
house
vibration by half

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

All homes respond differently.

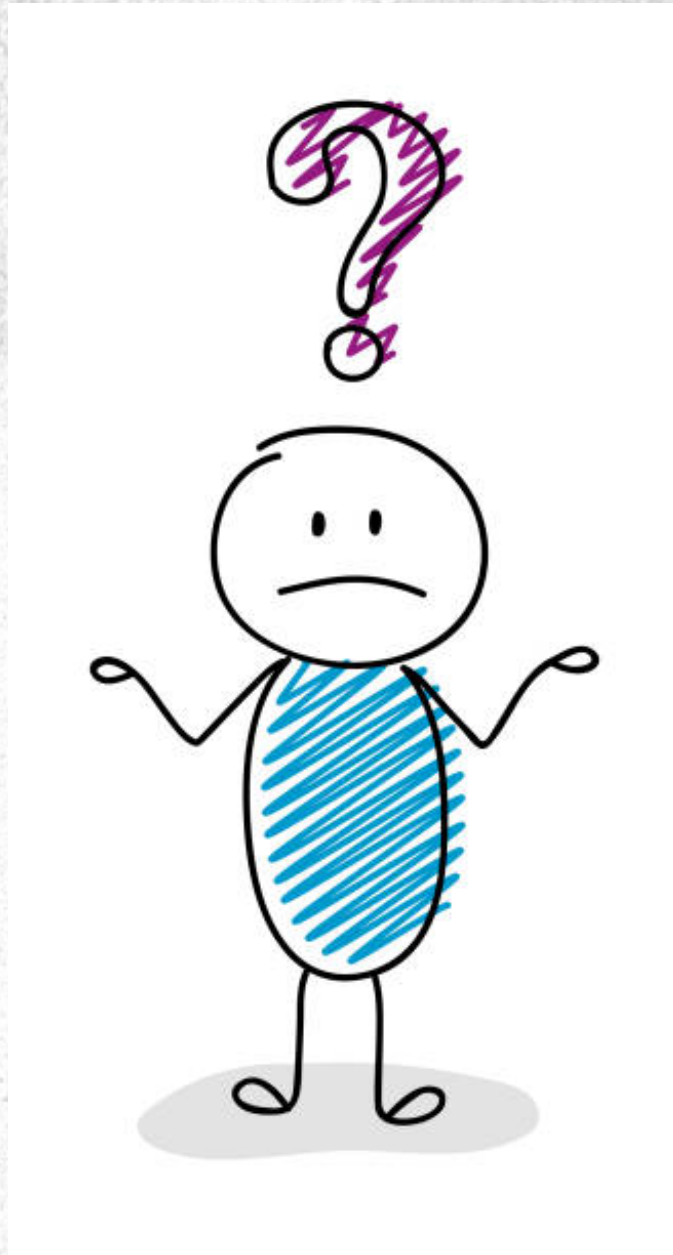
Measuring these factors helps us
determine safe structural response.

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





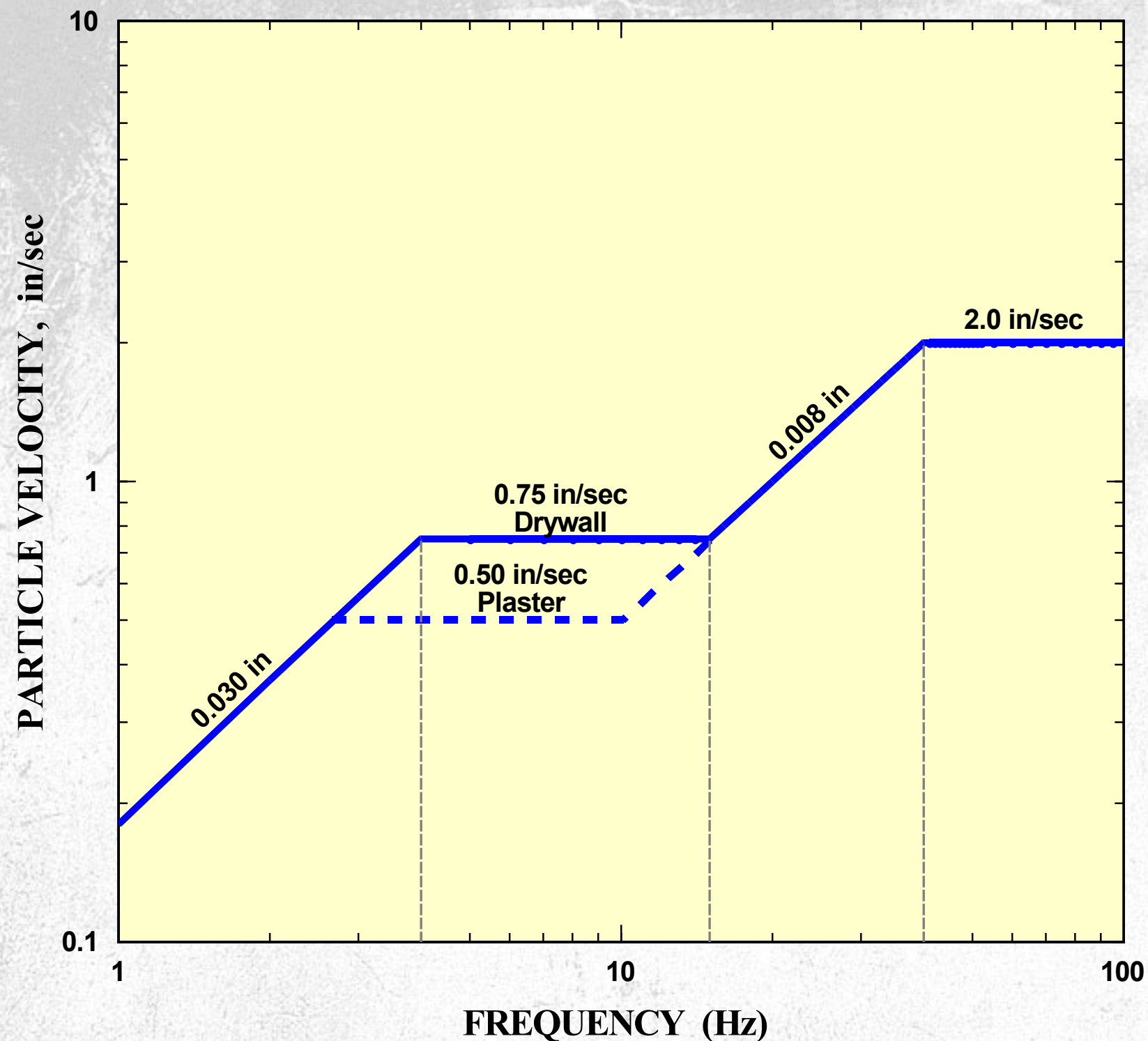
Natural Frequency





Natural Frequency



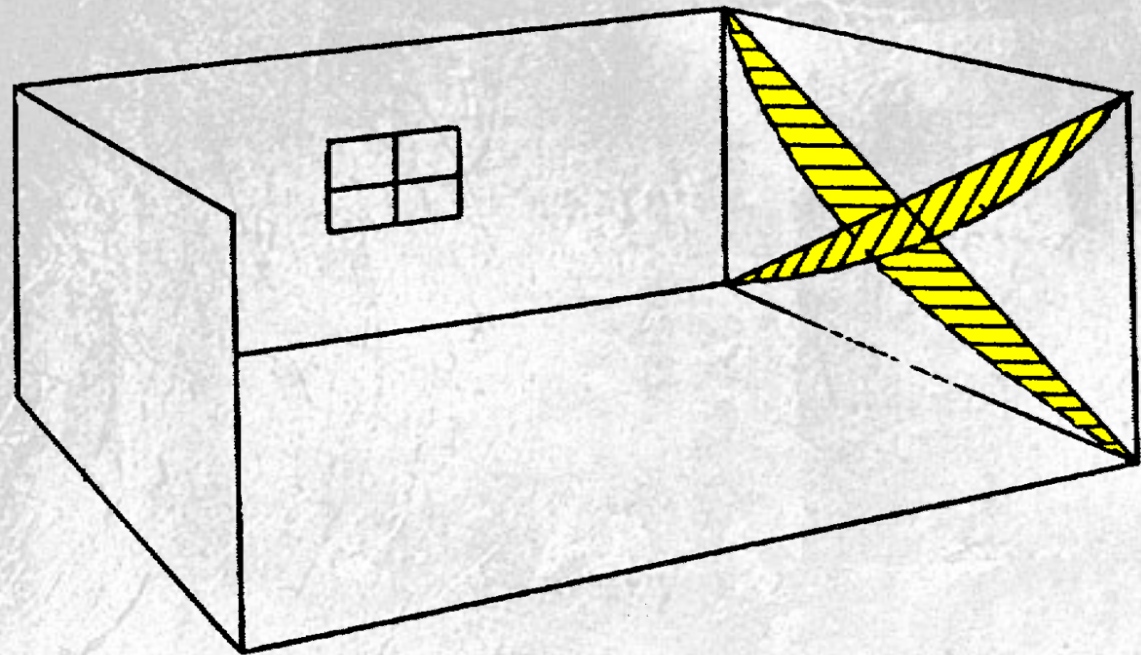


The USBM (U.S. Bureau of Mines) Z-curve is the standard used to assess safe ground vibration.

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

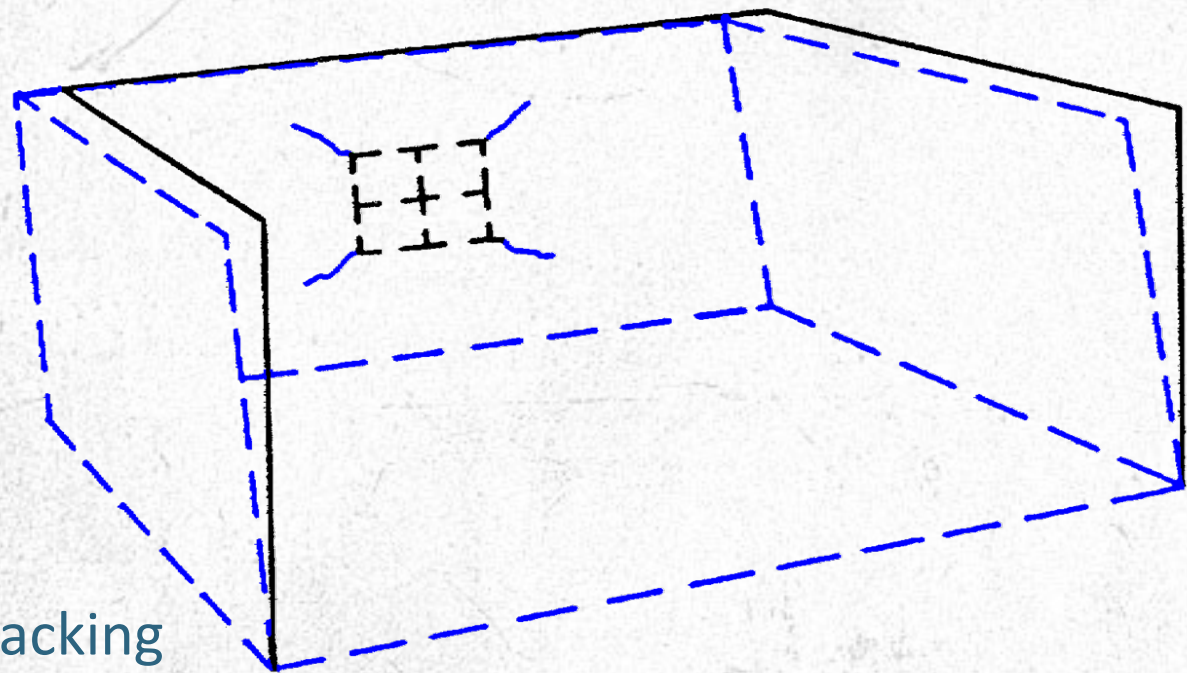
Each particle velocity must correspond with a frequency to accurately plot on this graph.

The higher the frequency, the higher allowance of peak particle velocity.



Midwall
Response

Bending



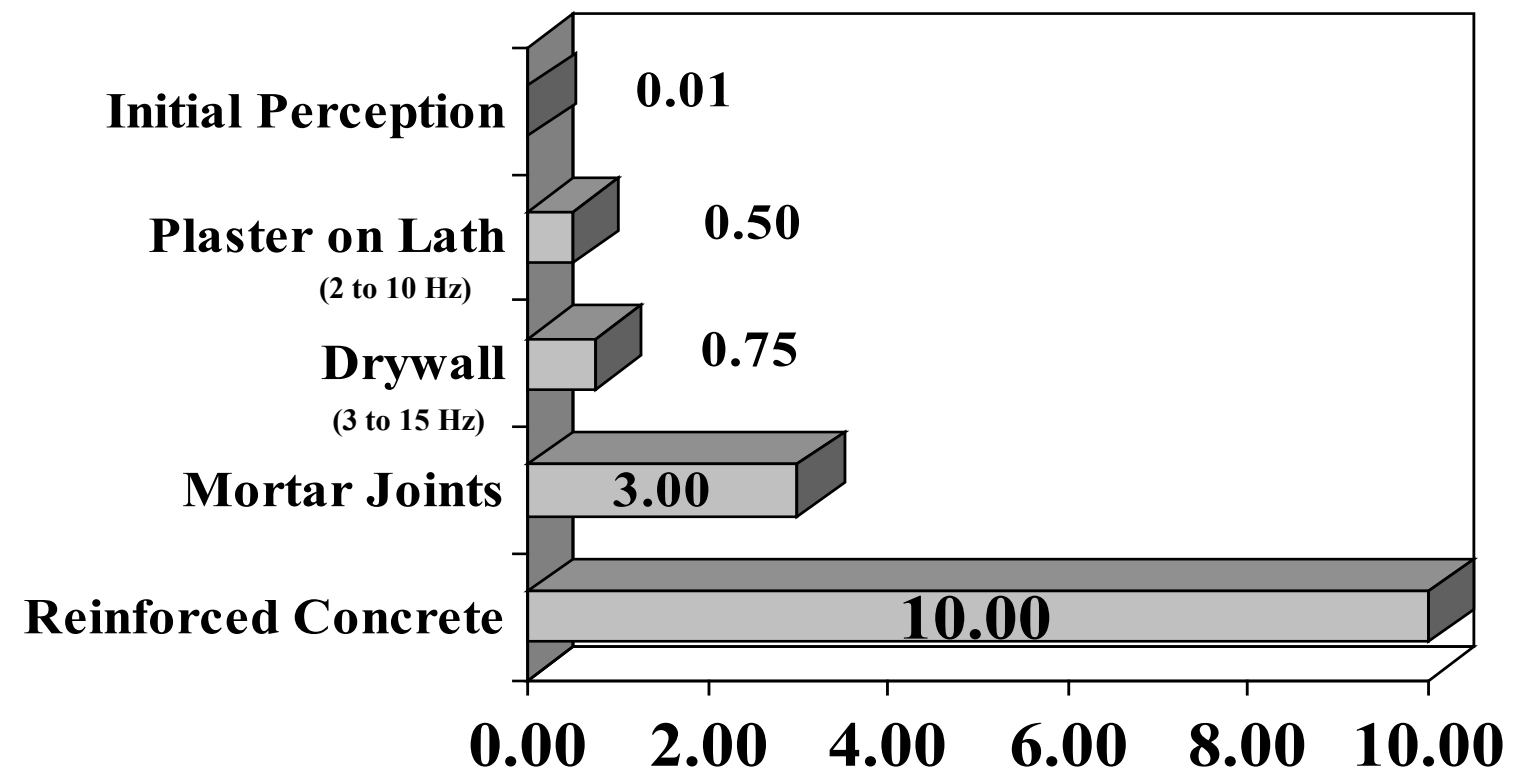
Racking
Response

Shear

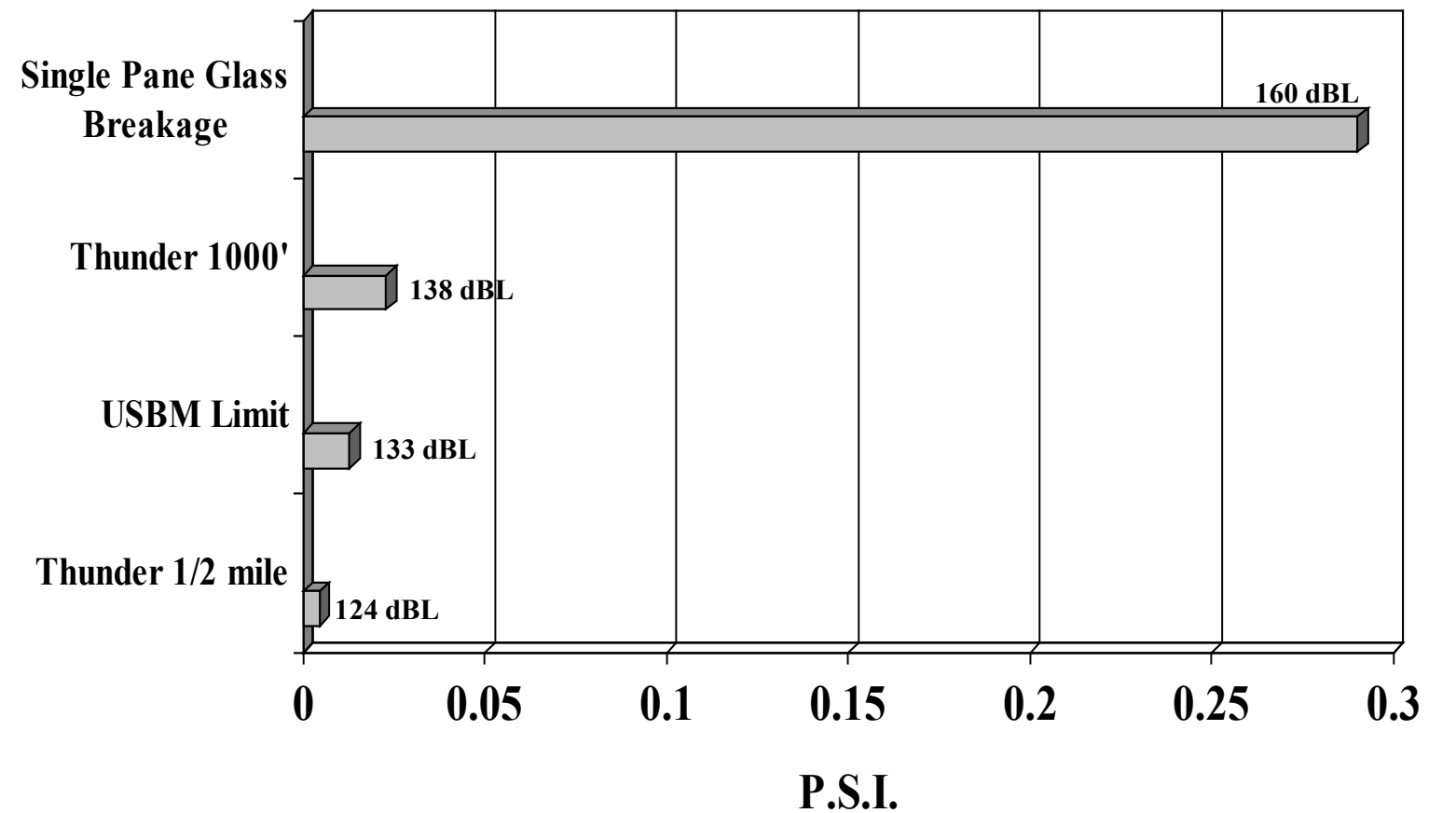
In the state of Texas, foundation settling is a common occurrence. Soils expand and contract due to the weather and other environmental factors.

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. Since these occur over many years daily during the life of the structure, with greater effect there is little vibration will do within the regulatory limits.



USBM RI-8507

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

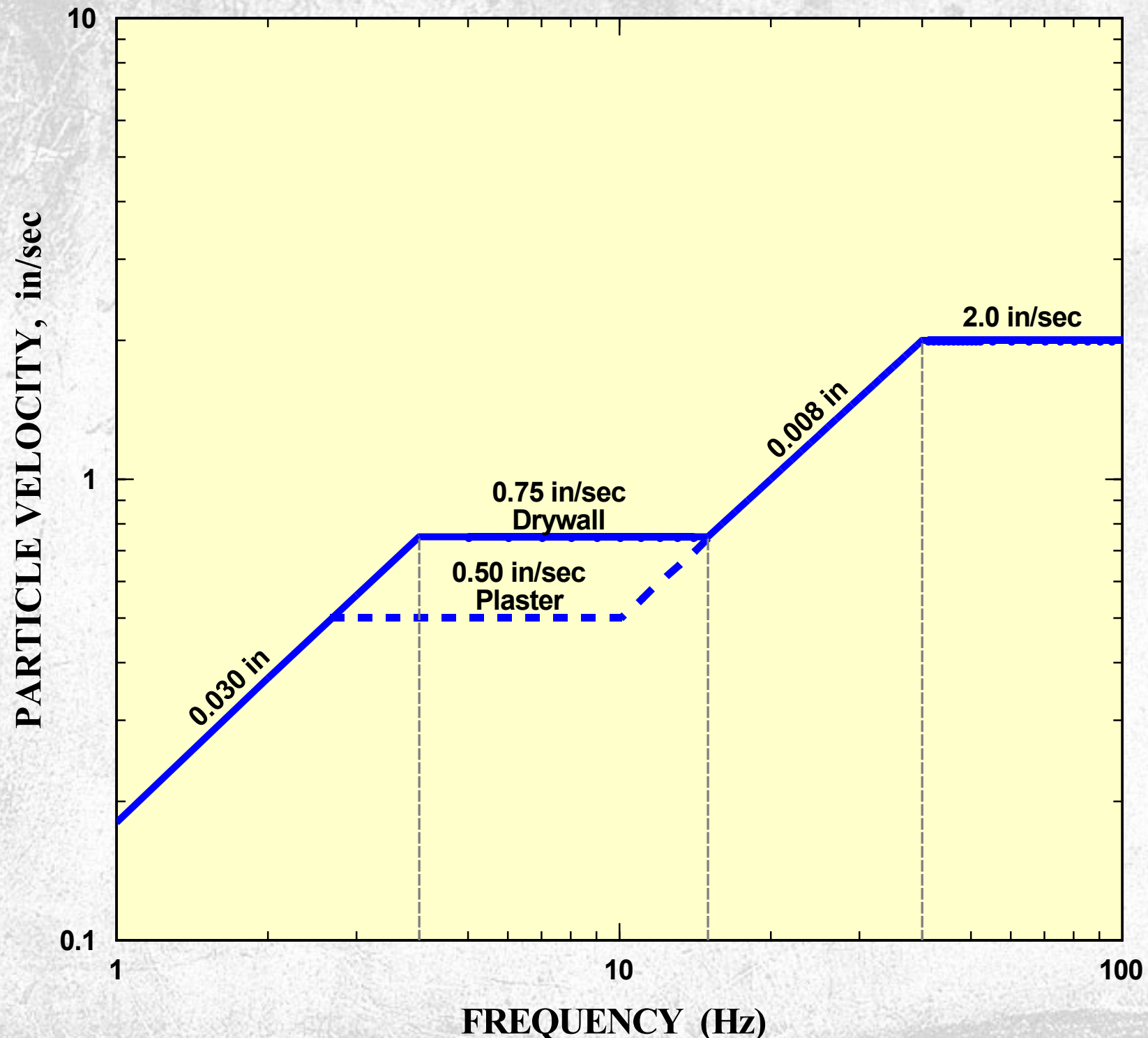
In this study, damage from actual surface-mine production blasting was observed in 76 residences for 219 production blasts. This data along with damage data from six additional studies were combined with the historical data from Bulletin 656.

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.

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 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

Future Agenda Items

Quarry Commission

May 11, 2020

Regular Meeting

- 12 days before Meeting (4/29/20) Commission and Staff items are due
- 10 days before Meeting (5/01/20) City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
- 7 days before Meeting (5/04/20) 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 (5/07/20) Post Agenda Packet to CivicClerk
- 3 days before Meeting (5/08/20) (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 03-9-20

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

