



City of Garden Ridge

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

AGENDA QUARRY COMMISSION REGULAR MEETING MONDAY, MAY 13, 2019, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, May 13, 2019, 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 by May 10, 2019, before 6:00 p.m. providing time, place, date, and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made 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 Quarry Commission welcomes citizen participation and comments at all Quarry Commission Meetings. The Quarry Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. If you speak, you should follow these guidelines:

- a) Respect and courtesy:
 - i. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
 - ii. Show the Commission the same respect that you would like to be shown.
 - iii. End your speaking at the time allotted below.
- b) Speaking:
 - i. First citizen comment period
 1. You are required to sign up to speak.
 2. You are limited to one 3-minute period.
 - ii. Business item period
 1. You are required to sign up to speak.
 2. You are limited to one 3-minute period.
 - iii. Second citizen comment period
 1. You are not required to sign up.
 2. You are limited to one 2-minute period.
 - iv. State your name and address before your comments begin.
 - v. 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 Quarry 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/or action.

- a) Approvals
 - i. Approval of Minutes for March 11, 2019, Quarry Commission Regular Meeting.

- b) Discussions/Reports/Reviews
 - i. 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.
 - ii. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commissioner contact with citizen/s, as necessary.
 - iii. Discussion on number of, placement, and location of monitors and other matters related to monitoring of blasts by Vibratex and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Baker residence.
- c) Updates/Recommendations
 - i. City Council Regular Meetings on April 3, 2019, and May 1, 2019.
 - ii. 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.
 - 1. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.
- d) Future Agenda Items
 - i. Commissioners input for items on upcoming agendas.
 - ii. Update on future education/training sessions and Grapevine articles.
 - iii. Announcement of next Quarry Commission Regular Meeting (Monday, July 8, 2019, at 6:00 p.m. at City Hall – City Council Chambers)
- e) Education/Training – limited to 20 minutes
 - i. Question and answer session with Vibratex, Hanson representatives, blasting contractor/s, and the public.

**6. Citizen Comment Period – limited to 20 minutes total
See “Rules for Citizen’s Participation” under Item 4.**

7. Executive Session

The Quarry Commission will recess its open meeting and reconvene in Executive Session:

- a) Pursuant to Texas Government Code Section 551.071 – Consultation with Attorney
 - 1. To seek legal advice in connection with settlement negotiations and other issues related to Hanson Aggregates operations, blasting and possible amendments to Ordinance 34.

8. Business Items (continued)

The Quarry Commission will reconvene into Regular Session upon conclusion of the Executive Session and may recall any item posted for Executive Session for action, as necessary.

- a) AN ORDINANCE OF THE CITY OF GARDEN RIDGE, TEXAS, PROHIBITING BLASTING, WITHIN THE CITY LIMITS; PROVIDING FOR PARTIAL EXEMPTION PERMIT; ESTABLISHING REGULATIONS PERTAINING TO BLASTING; ESTABLISHING CRIMINAL AND CIVIL PENALTIES FOR VIOLATIONS; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE; PROVIDING FOR SEVERABILITY; INCLUDING A REPEALER CLAUSE; AND DECLARING AN EFFECTIVE DATE.

9. 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:

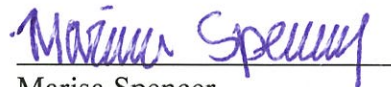
The Commission may vote or act upon any item within this Agenda. The Commission reserves the right to adjourn into closed session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Title 5, Chapter 551, of the Texas Government Code.

Executive Sessions Authorized:

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

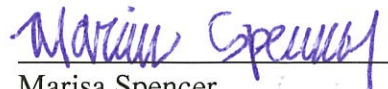
Attendance By Other Elected or Appointed Officials:

It is anticipated that members of 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 are specifically provided for on an agenda for that board, commission, or committee subject to the Texas Open Meetings Act.



Marisa Spencer
City Secretary

This is to certify that I, Marisa Spencer, posted this Agenda at 10:30 a.m. on May 8, 2019, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Marisa Spencer
City Secretary



City of Garden Ridge

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

MINUTES QUARRY COMMISSION REGULAR MEETING MONDAY, MARCH 11, 2019, 6:00 P.M.

Commissioners Present:

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

Commissioners Absent:

Commissioner Mark DuBois (Voluntary Announced Absence)

City Staff Present:

Nancy Cain, City Administrator
Marisa Spencer, City Secretary
Cynthia Trevino, City Attorney

Other City Councilmembers or Commissioners Present:

None

1. Call to Order

With a quorum of the Quarry Commission Members present, Chair Shands called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, March 11, 2019, 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 Shands led the Pledge of Allegiance.

4. Citizen Comment Period – limited to 30 minutes total

No one signed up to speak.

5. Business Items

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

a) Approvals

i. Approval of Minutes for January 14, 2019, Quarry Commission Regular Meeting.

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Haddad, to approve the January 14, 2019, Quarry Commission Regular Meeting Minutes. The Quarry Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

b) Discussions/Reports/Reviews

- i. 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 Reitinger, Vibra-Tech, presented and discussed the January blast analysis. He stated that 16 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 0.198 occurred on January 29, 2019, at the Warden Property Line and the highest Air Overpressure of 119 dB occurred on January 22, 2019, at the Holly Residence.

Nicholas Reitinger, Vibra-Tech, presented and discussed the February blast analysis. He stated that 13 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 0.183 occurred on February 20, 2019, at the Warden Property Line and the highest Air Overpressure of 118 dB occurred on February 21, 2019, at the Holly Residence.

- ii. 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 Reitinger, Vibra-Tech, discussed citizen blast reports received for January and February. He reviewed the citizen concerns and relevant blasts from Jan Hayslip, Wayne Davis, Heather Ecton, Beverly Pickering, Valinda McAlister Bacon, Debbie Dauer, Amy Harrell/Lowrimore, and Catherine Harm.

- iii. Discussion on number of, placement, and location of monitors and other matters related to monitoring of blasts by Vibratex and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Baker residence.**

The Commission discussed looking into if anyone in Regency Oaks is interested in having a roving monitor.

c) Updates

- i. City Council Regular Meetings on February 6, 2019, and March 6, 2019.**

Nancy Cain, City Administrator, stated there were no recommendations for consideration by City Council from the Quarry Commission at these meetings; therefore, there are no updates.

- ii. 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.**

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

Chair Shands stated Commissioner DuBois notified him and Marisa Spencer, City Secretary, of his absences well in advance. Chair Shands spoke regarding the City Council and Quarry Commission Special Joint Meeting adding a voluntary announced absence for Commissioner DuBois. Vice-Chair Mudge spoke regarding Ordinance No. 210-022018 and stated he appreciates Commissioner DuBois volunteering to serve on the Quarry Commission, adding Commissioner DuBois has knowledge that is hard to find.

Motion: A motion was made by Commissioner Haddad, seconded by Commissioner Holloway, to recommend to City Council that termination of Commissioner DuBois be waived to allow a fourth (4th) consecutive absence or a fifth (5th) total absence. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously.

d) Future Agenda Items

- i. Commissioners input for items on upcoming agendas.**

None.

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

The Commission discussed possible information to include in future Grapevine articles.

The Commission requested that another “question and answer” open forum be held at the next meeting.

iii. Announcement of next Quarry Commission Regular Meeting – Monday, May 13, 2019, at 6:00 p.m. at City Hall.

Chair Shands announced the next Quarry Commission Regular Meeting will be held on Monday, May 13, 2019, at 6:00 p.m. at City Hall.

e) Education/Training – limited to 20 minutes

i. Question and answer session with Vibratex, Hanson representatives, blasting contractor/s, and the public.

The Commission discussed construction practices, blasting locations, and blasting techniques with Nicholas Reitinger and Geoffrey Rigsby, Vibra-Tech. Councilmember Lantzy stated if the Commission would like he would discuss construction practices and codes more in depth at the next Commission meeting. The Commission agreed they would like more information regarding these topics and thanked Councilmember Lantzy.

6. Citizen Comment Period – limited to 20 minutes total

No one wished to speak.

7. Executive Session

The Quarry Commission will recess its open meeting and reconvene in Executive Session:

a) Pursuant to Texas Government Code Section 551.071 – Consultation with Attorney

1. To seek legal advice in connection with settlement negotiations and other issues related to Hanson Aggregates operations, blasting and possible amendments to Ordinance 34.

Chair Shands announced the Quarry Commission will recess at 7:03 p.m. and reconvene into Executive Session at 7:04 p.m., in accordance with Texas Government Code Section 551.074 – Consultation with Attorney on the one (1) item stated above.

Chair Shands adjourned the Executive Session and reconvened back into Regular Session at 8:17 p.m.

8. Business Items (continued)

The Quarry Commission will reconvene into Regular Session upon conclusion of the Executive Session and may recall any item posted for Executive Session for action, as necessary.

Chair Shands asked if any Commissioners wanted to recall the item posted for Executive Session to allow for any action they wanted to take. Receiving no responses from Commissioners to recall the item for any action, Chair Shands closed Business Items.

9. Adjournment

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Holly, to adjourn. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, March 11, 2019, Quarry Commission Regular Meeting was adjourned at 8:18 p.m. by Chair Shands.

Mike Shands, Chair

ATTEST:

Marisa Spencer, City Secretary



April 2, 2019

VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

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

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of March 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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.



VibraTechinc.com

Respectfully submitted,

VIBRA-TECH, INC.

A handwritten signature in black ink, appearing to read "Geoffrey Rigsby".

Geoffrey Rigsby
Regional Manager

cc: Hal Halamuda, Hanson – Servtex



03/22/2019 Upper Bench 3H

Michels

Baker

City Property Line

Warden Warden Property Line

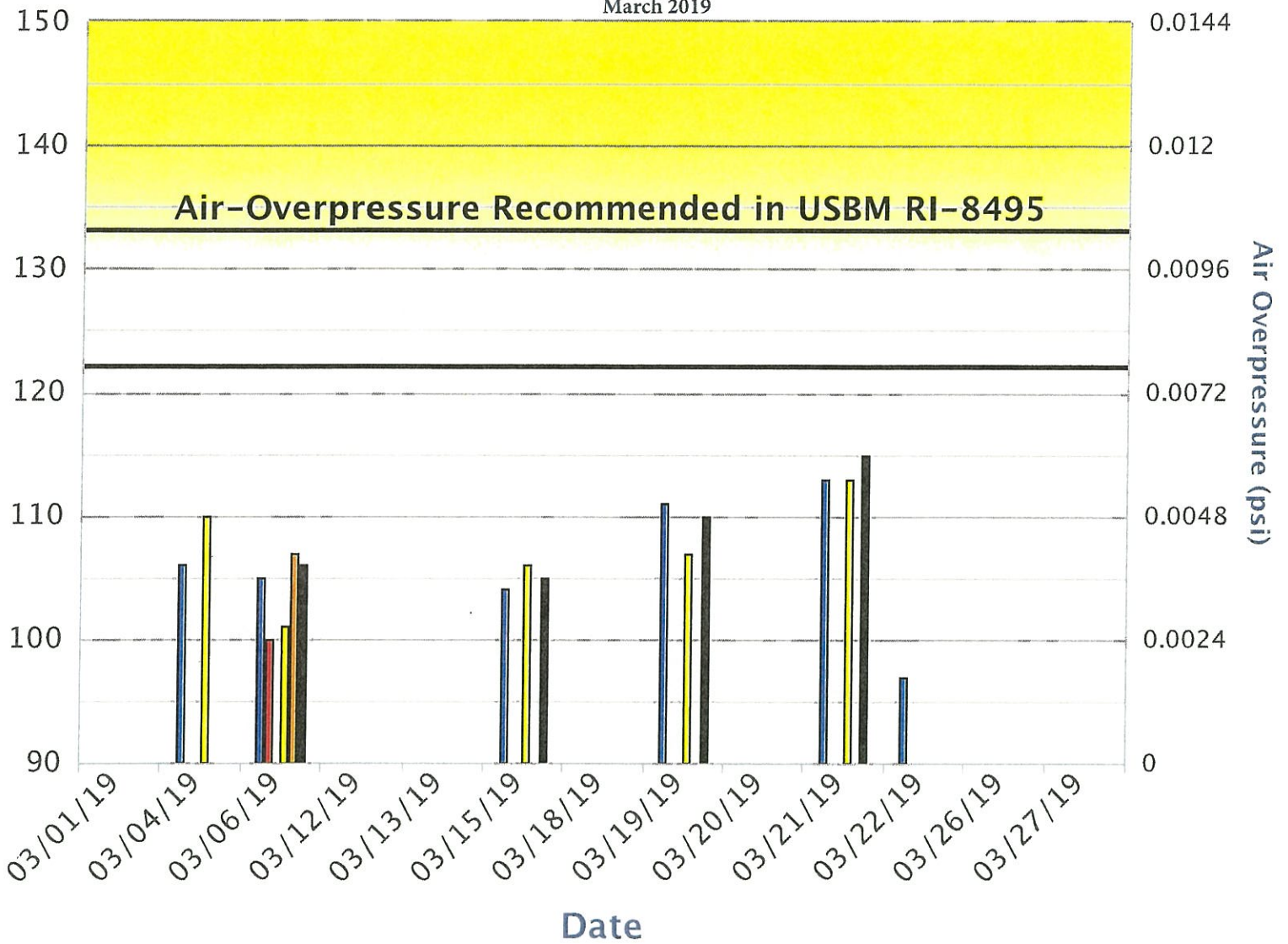
Holly

03/19/2019 Base Pit S. Wall C

03/04/2019 Lower S. Wall B
03/13/2019 Upper S. Wall C
03/26/2019 Upper S. Wall D
03/20/2019 Upper S. Wall A
03/01/2019 Upper S. Wall B
03/18/2019 Upper S. Wall D

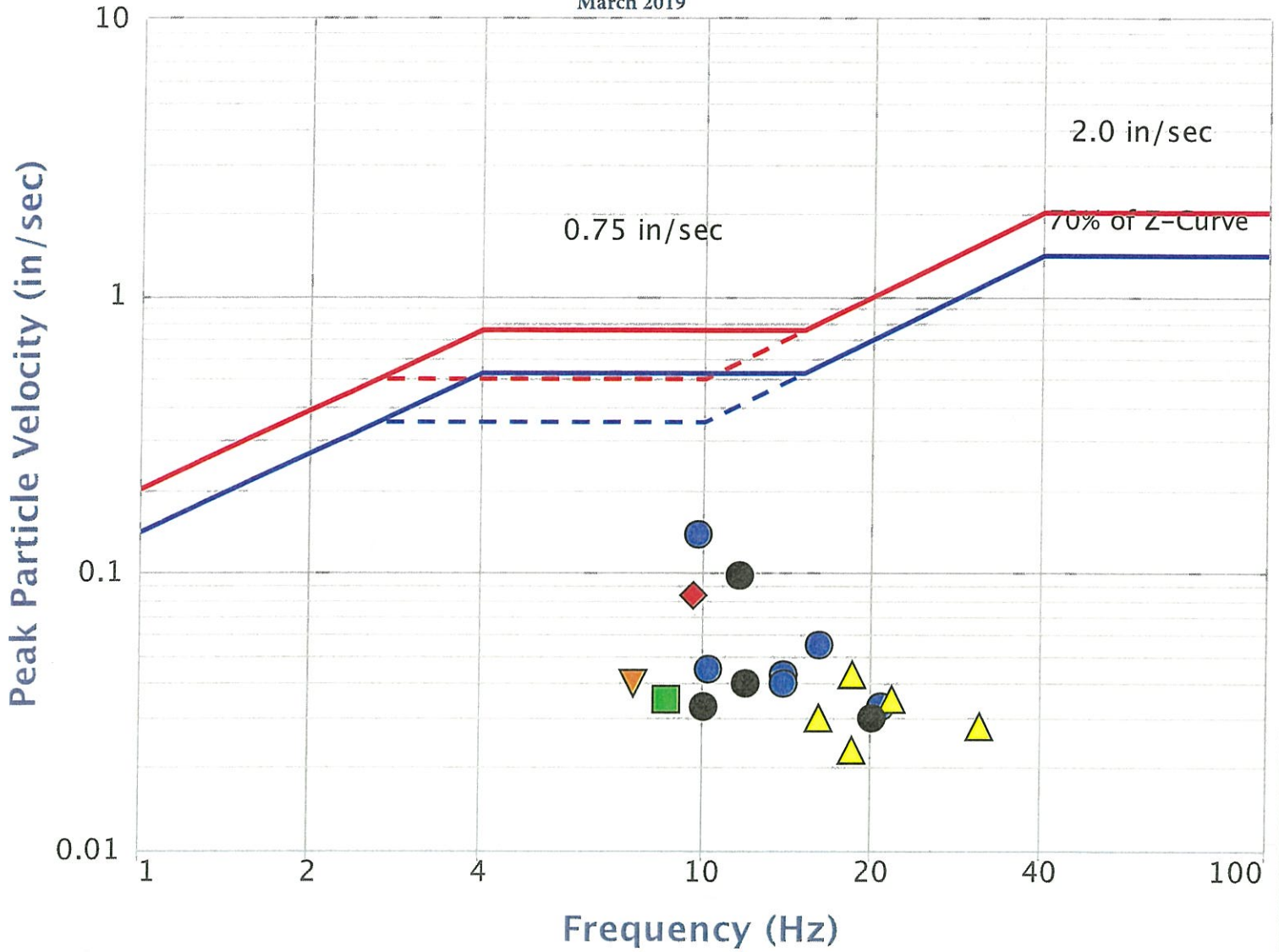
Garden Ridge

Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
March 2019



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

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
March 2019



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MARCH 2019**

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
03/01/19	03/01/2019 Upper S. Wall B	N 29° 38' 5.46" W 098° 16' 41.71"	CLOUDY 52° E 6	15:27	NT	NT	NT	1240	122.00	9,544	Baker Residence
03/01/19	03/01/2019 Upper S. Wall B	N 29° 38' 5.46" W 098° 16' 41.71"	CLOUDY 52° E 6	15:27	NT	NT	NT	1240	122.00	6,598	City Property Line
03/01/19	03/01/2019 Upper S. Wall B	N 29° 38' 5.46" W 098° 16' 41.71"	CLOUDY 52° E 6	15:27	NT	NT	NT	1240	122.00	4,051	Holly - 9916 Trophy Oaks
03/01/19	03/01/2019 Upper S. Wall B	N 29° 38' 5.46" W 098° 16' 41.71"	CLOUDY 52° E 6	15:27	NT	NT	NT	1240	122.00	9,579	Michels - 9118 Tuscan Hills
03/01/19	03/01/2019 Upper S. Wall B	N 29° 38' 5.46" W 098° 16' 41.71"	CLOUDY 52° E 6	15:27	NT	NT	NT	1240	122.00	5,433	Warden - 21375 Gunther Grove
03/04/19	03/04/2019 Lower S. Wall B	N 29° 38' 6.00" W 098° 16' 45.65"	CLOUDY 36° N 13	13:13	NT	NT	NT	968	677.00	9,194	Baker Residence
03/04/19	03/04/2019 Lower S. Wall B	N 29° 38' 6.00" W 098° 16' 45.65"	CLOUDY 36° N 13	13:13	NT	NT	NT	968	677.00	6,249	City Property Line
03/04/19	03/04/2019 Lower S. Wall B	N 29° 38' 6.00" W 098° 16' 45.65"	CLOUDY 36° N 13	13:13	0.023	18.5	110.0	968	677.00	3,701	Holly - 9916 Trophy Oaks
03/04/19	03/04/2019 Lower S. Wall B	N 29° 38' 6.00" W 098° 16' 45.65"	CLOUDY 36° N 13	13:13	NT	NT	NT	968	677.00	9,244	Michels - 9118 Tuscan Hills
03/04/19	03/04/2019 Lower S. Wall B	N 29° 38' 6.00" W 098° 16' 45.65"	CLOUDY 36° N 13	13:13	NT	NT	NT	968	677.00	5,088	Warden - 21375 Gunther Grove
03/06/19	03/06/2019 West Wall 3D	N 29° 38' 51.37" W 098° 17' 50.77"	CLOUDY 55° S 11	14:29	0.035	8.6	87.0	894	200.00	3,836	Baker Residence
03/06/19	03/06/2019 West Wall 3D	N 29° 38' 51.37" W 098° 17' 50.77"	CLOUDY 55° S 11	14:29	0.040	7.5	107.0	894	200.00	2,926	City Property Line
03/06/19	03/06/2019 West Wall 3D	N 29° 38' 51.37" W 098° 17' 50.77"	CLOUDY 55° S 11	14:29	0.083	9.6	100.0	894	200.00	2,560	Michels - 9118 Tuscan Hills
03/06/19	03/06/2019 West Wall 3D	N 29° 38' 51.37" W 098° 17' 50.77"	CLOUDY 55° S 11	14:29	0.098	11.6	106.0	894	200.00	3,027	Warden - 21375 Gunther Grove
03/06/19	03/06/2019 West Wall 3D	N 29° 38' 51.37" W 098° 17' 50.77"	CLOUDY 55° S 11	14:29	0.138	9.8	105.0	894	200.00	2,860	Warden Property Line

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

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MARCH 2019

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
03/12/19	03/12/2019 Upper S. Wall A	N 29° 38' 6.98" W 098° 16' 37.37"	CLOUDY 77° SE 18	14:13	NT	NT	NT	1980	86.00	9,876	Baker Residence
03/12/19	03/12/2019 Upper S. Wall A	N 29° 38' 6.98" W 098° 16' 37.37"	CLOUDY 77° SE 18	14:13	NT	NT	NT	1980	86.00	6,931	City Property Line
03/12/19	03/12/2019 Upper S. Wall A	N 29° 38' 6.98" W 098° 16' 37.37"	CLOUDY 77° SE 18	14:13	NT	NT	NT	1980	86.00	4,392	Holly - 9916 Trophy Oaks
03/12/19	03/12/2019 Upper S. Wall A	N 29° 38' 6.98" W 098° 16' 37.37"	CLOUDY 77° SE 18	14:13	NT	NT	NT	1980	86.00	9,859	Michels - 9118 Tuscan Hills
03/12/19	03/12/2019 Upper S. Wall A	N 29° 38' 6.98" W 098° 16' 37.37"	CLOUDY 77° SE 18	14:13	NT	NT	NT	1980	86.00	5,750	Warden - 21375 Gunther Grove
03/13/19	03/13/2019 Upper S. Wall C	N 29° 38' 3.80" W 098° 16' 45.06"	SUNNY 76° NW 10	14:35	NT	NT	NT	1845	93.00	9,305	Baker Residence
03/13/19	03/13/2019 Upper S. Wall C	N 29° 38' 3.80" W 098° 16' 45.06"	SUNNY 76° NW 10	14:35	NT	NT	NT	1845	93.00	6,362	City Property Line
03/13/19	03/13/2019 Upper S. Wall C	N 29° 38' 3.80" W 098° 16' 45.06"	SUNNY 76° NW 10	14:35	NT	NT	NT	1845	93.00	3,812	Holly - 9916 Trophy Oaks
03/13/19	03/13/2019 Upper S. Wall C	N 29° 38' 3.80" W 098° 16' 45.06"	SUNNY 76° NW 10	14:35	NT	NT	NT	1845	93.00	6,362	Michels - 9118 Tuscan Hills
03/13/19	03/13/2019 Upper S. Wall C	N 29° 38' 3.80" W 098° 16' 45.06"	SUNNY 76° NW 10	14:35	NT	NT	NT	1845	93.00	5,216	Warden - 21375 Gunther Grove
03/15/19	03/15/2019 Lower S. Wall A	N 29° 38' 8.00" W 098° 16' 39.83"	CLOUDY 59° N 12	13:38	NT	NT	NT	1136	619.00	9,642	Baker Residence
03/15/19	03/15/2019 Lower S. Wall A	N 29° 38' 8.00" W 098° 16' 39.83"	CLOUDY 59° N 12	13:38	NT	NT	NT	1136	619.00	6,696	City Property Line
03/15/19	03/15/2019 Lower S. Wall A	N 29° 38' 8.00" W 098° 16' 39.83"	CLOUDY 59° N 12	13:38	0.028	31.3	106.0	1136	619.00	4,160	Holly - 9916 Trophy Oaks
03/15/19	03/15/2019 Lower S. Wall A	N 29° 38' 8.00" W 098° 16' 39.83"	CLOUDY 59° N 12	13:38	NT	NT	NT	1136	619.00	9,619	Michels - 9118 Tuscan Hills
03/15/19	03/15/2019 Lower S. Wall A	N 29° 38' 8.00" W 098° 16' 39.83"	CLOUDY 59° N 12	13:38	0.030	20.0	105.0	1136	619.00	5,513	Warden - 21375 Gunther Grove

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

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MARCH 2019

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
03/18/19	03/18/2019 Upper S. Wall D	N 29° 38' 3.19" W 098° 16' 48.75"	SUNNY 65° E 13	14:19	NT	NT	NT	1830	84.00	9,011	Baker Residence
03/18/19	03/18/2019 Upper S. Wall D	N 29° 38' 3.19" W 098° 16' 48.75"	SUNNY 65° E 13	14:19	NT	NT	NT	1830	84.00	6,073	City Property Line
03/18/19	03/18/2019 Upper S. Wall D	N 29° 38' 3.19" W 098° 16' 48.75"	SUNNY 65° E 13	14:19	NT	NT	NT	1830	84.00	3,524	Holly - 9916 Trophy Oaks
03/18/19	03/18/2019 Upper S. Wall D	N 29° 38' 3.19" W 098° 16' 48.75"	SUNNY 65° E 13	14:19	NT	NT	NT	1830	84.00	9,135	Michels - 9118 Tuscan Hills
03/18/19	03/18/2019 Upper S. Wall D	N 29° 38' 3.19" W 098° 16' 48.75"	SUNNY 65° E 13	14:19	NT	NT	NT	1830	84.00	4,940	Warden - 21375 Gunther Grove
03/19/19	03/19/2019 Base Pit S. Wall C	N 29° 38' 10.33" W 098° 16' 55.50"	CLOUDY 67° NE 5	14:59	NT	NT	NT	1200	599.00	8,245	Baker Residence
03/19/19	03/19/2019 Base Pit S. Wall C	N 29° 38' 10.33" W 098° 16' 55.50"	CLOUDY 67° NE 5	14:59	NT	NT	NT	1200	599.00	5,299	City Property Line
03/19/19	03/19/2019 Base Pit S. Wall C	N 29° 38' 10.33" W 098° 16' 55.50"	CLOUDY 67° NE 5	14:59	0.030	16.1	107.0	1200	599.00	2,760	Holly - 9916 Trophy Oaks
03/19/19	03/19/2019 Base Pit S. Wall C	N 29° 38' 10.33" W 098° 16' 55.50"	CLOUDY 67° NE 5	14:59	NT	NT	NT	1200	599.00	8,271	Michels - 9118 Tuscan Hills
03/19/19	03/19/2019 Base Pit S. Wall C	N 29° 38' 10.33" W 098° 16' 55.50"	CLOUDY 67° NE 5	14:59	0.033	10.0	110.0	1200	599.00	4,124	Warden - 21375 Gunther Grove
03/20/19	03/20/2019 Upper S. Wall A	N 29° 38' 6.14" W 098° 16' 37.25"	CLOUDY 68° N 1	13:37	NT	NT	NT	1880	122.00	9,907	Baker Residence
03/20/19	03/20/2019 Upper S. Wall A	N 29° 38' 6.14" W 098° 16' 37.25"	CLOUDY 68° N 1	13:37	NT	NT	NT	1880	122.00	6,961	City Property Line
03/20/19	03/20/2019 Upper S. Wall A	N 29° 38' 6.14" W 098° 16' 37.25"	CLOUDY 68° N 1	13:37	NT	NT	NT	1880	122.00	4,419	Holly - 9916 Trophy Oaks
03/20/19	03/20/2019 Upper S. Wall A	N 29° 38' 6.14" W 098° 16' 37.25"	CLOUDY 68° N 1	13:37	NT	NT	NT	1880	122.00	9,904	Michels - 9118 Tuscan Hills
03/20/19	03/20/2019 Upper S. Wall A	N 29° 38' 6.14" W 098° 16' 37.25"	CLOUDY 68° N 1	13:37	NT	NT	NT	1880	122.00	5,785	Warden - 21375 Gunther Grove

VT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MARCH 2019

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
03/21/19	03/21/2019 Lower S. Wall B	N 29° 38' 7.02" W 098° 16' 42.00"	SUNNY 72° N 6	13:30	NT	NT	NT	1346	567.00	9,479	Baker Residence
03/21/19	03/21/2019 Lower S. Wall B	N 29° 38' 7.02" W 098° 16' 42.00"	SUNNY 72° N 6	13:30	NT	NT	NT	1346	567.00	6,533	City Property Line
03/21/19	03/21/2019 Lower S. Wall B	N 29° 38' 7.02" W 098° 16' 42.00"	SUNNY 72° N 6	13:30	0.043	18.5	113.0	1346	567.00	3,991	Holly - 9916 Trophy Oaks
03/21/19	03/21/2019 Lower S. Wall B	N 29° 38' 7.02" W 098° 16' 42.00"	SUNNY 72° N 6	13:30	NT	NT	NT	1346	567.00	9,487	Michels - 9118 Tuscan Hills
03/21/19	03/21/2019 Lower S. Wall B	N 29° 38' 7.02" W 098° 16' 42.00"	SUNNY 72° N 6	13:30	0.040	11.9	115.0	1346	567.00	5,359	Warden - 21375 Gunther Grove
03/22/19	03/22/2019 Upper Bench 3H	N 29° 39' 1.37" W 098° 17' 46.02"	CLOUDY 74° SE 8	13:59	NT	NT	NT	1120	55.00	4,796	Baker Residence
03/22/19	03/22/2019 Upper Bench 3H	N 29° 39' 1.37" W 098° 17' 46.02"	CLOUDY 74° SE 8	13:59	NT	NT	NT	1120	55.00	3,988	City Property Line
03/22/19	03/22/2019 Upper Bench 3H	N 29° 39' 1.37" W 098° 17' 46.02"	CLOUDY 74° SE 8	13:59	NT	NT	NT	1120	55.00	3,281	Michels - 9118 Tuscan Hills
03/22/19	03/22/2019 Upper Bench 3H	N 29° 39' 1.37" W 098° 17' 46.02"	CLOUDY 74° SE 8	13:59	0.038	9.4	97.0	1120	55.00	3,924	Warden - 21375 Gunther Grove
03/22/19	03/22/2019 Upper Bench 3H	N 29° 39' 1.37" W 098° 17' 46.02"	CLOUDY 74° SE 8	13:59	0.045	10.2	97.0	1120	55.00	3,729	Warden Property Line
03/26/19	03/26/2019 Upper S. Wall D	N 29° 38' 0.90" W 098° 16' 53.01"	SUNNY 71° NE 8	12:17	NT	NT	NT	1905	126.00	8,729	Baker Residence
03/26/19	03/26/2019 Upper S. Wall D	N 29° 38' 0.90" W 098° 16' 53.01"	SUNNY 71° NE 8	12:17	NT	NT	NT	1905	126.00	5,803	City Property Line
03/26/19	03/26/2019 Upper S. Wall D	N 29° 38' 0.90" W 098° 16' 53.01"	SUNNY 71° NE 8	12:17	NT	NT	NT	1905	126.00	3,269	Holly - 9916 Trophy Oaks
03/26/19	03/26/2019 Upper S. Wall D	N 29° 38' 0.90" W 098° 16' 53.01"	SUNNY 71° NE 8	12:17	NT	NT	NT	1905	126.00	8,929	Michels - 9118 Tuscan Hills
03/26/19	03/26/2019 Upper S. Wall D	N 29° 38' 0.90" W 098° 16' 53.01"	SUNNY 71° NE 8	12:17	NT	NT	NT	1905	126.00	4,706	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MARCH 2019**

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
03/27/19	03/27/2019 Upper S. Wall B	N 29° 38' 4.63" W 098° 16' 42.64"	CLOUDY 68° S 13	12:01	NT	NT	NT	1950	39.00	9,486	Baker Residence
03/27/19	03/27/2019 Upper S. Wall B	N 29° 38' 4.63" W 098° 16' 42.64"	CLOUDY 68° S 13	12:01	NT	NT	NT	1950	39.00	6,542	City Property Line
03/27/19	03/27/2019 Upper S. Wall B	N 29° 38' 4.63" W 098° 16' 42.64"	CLOUDY 68° S 13	12:01	NT	NT	NT	1950	39.00	3,993	Holly - 9916 Trophy Oaks
03/27/19	03/27/2019 Upper S. Wall B	N 29° 38' 4.63" W 098° 16' 42.64"	CLOUDY 68° S 13	12:01	NT	NT	NT	1950	39.00	9,543	Michels - 9118 Tuscan Hills
03/27/19	03/27/2019 Upper S. Wall B	N 29° 38' 4.63" W 098° 16' 42.64"	CLOUDY 68° S 13	12:01	NT	NT	NT	1950	39.00	5,384	Warden - 21375 Gunther Grove

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NT = No Trigger, <122dB



May 8, 2019

VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

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

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of April 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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.



VibraTechinc.com

Respectfully submitted,

VIBRA-TECH, INC.

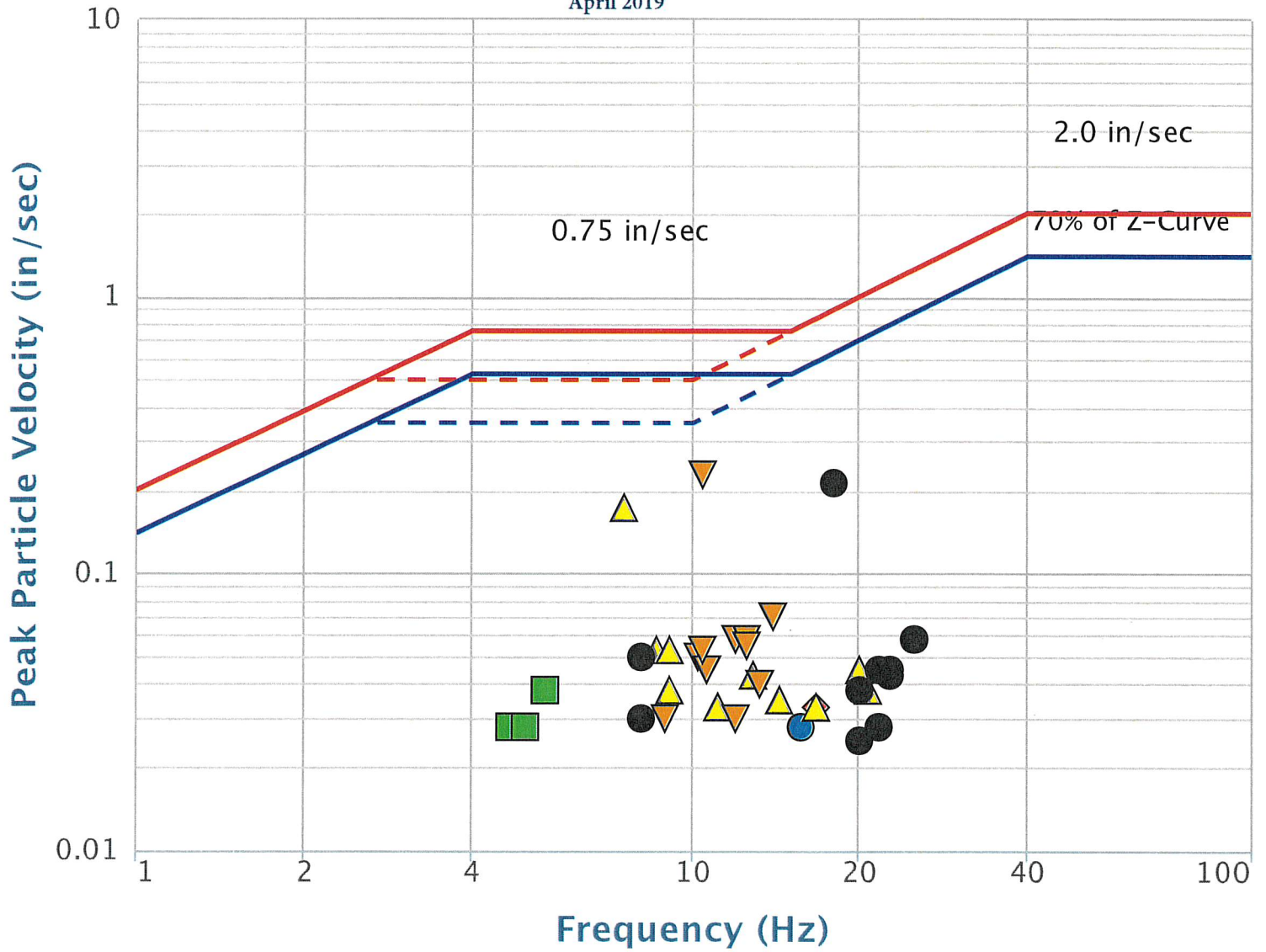
A handwritten signature in blue ink, appearing to be "R Payne", written in a cursive style.

Randall Payne
Operations Manager

cc: Hal Halamuda, Hanson – Servtex



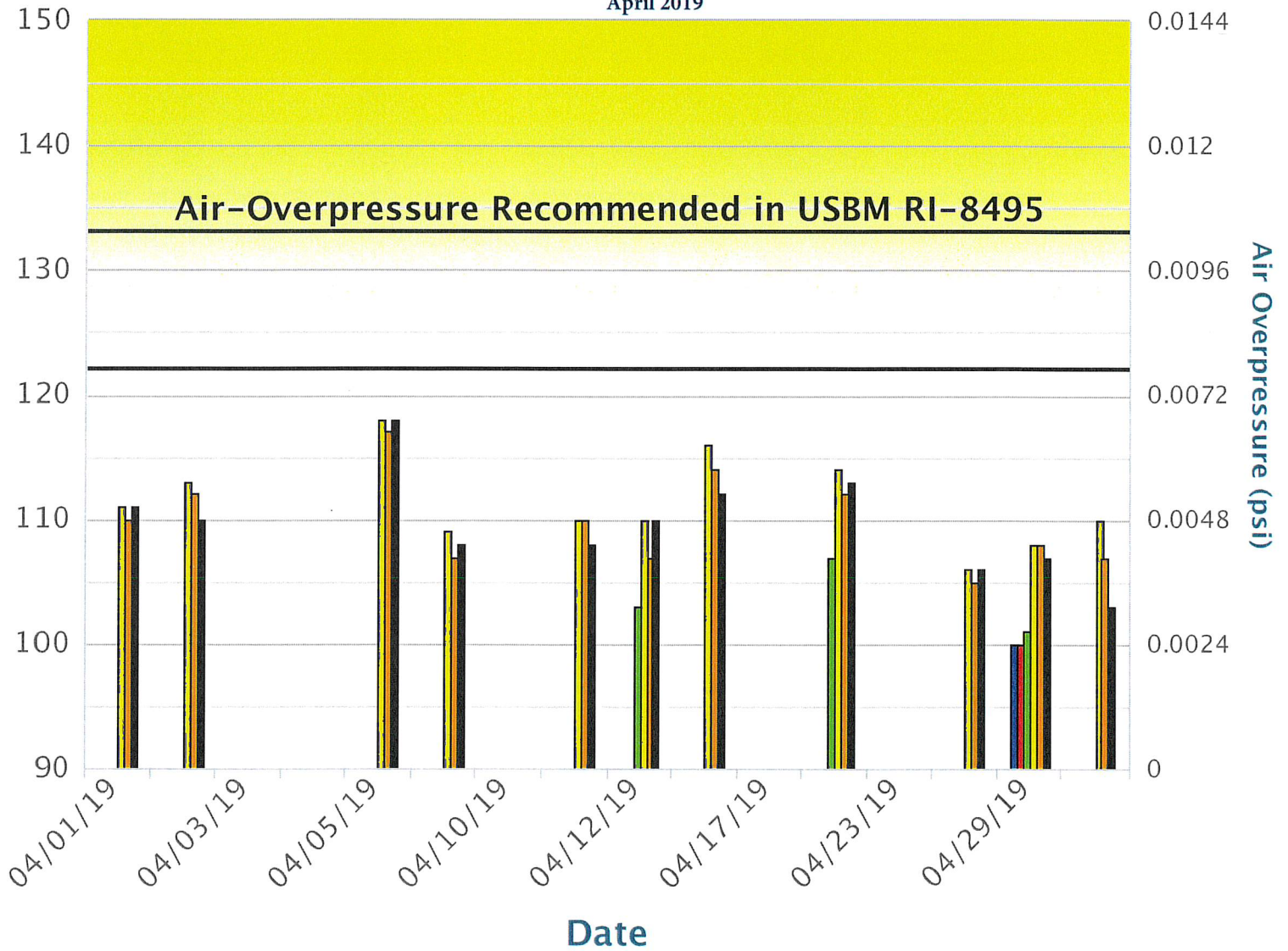
Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
April 2019



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

Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
April 2019

Air-Overpressure Recommended in USBM RI-8495



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

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
APRIL 2019

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
04/01/19	04/01/2019 Lower S. Wall C	N 29° 38' 5.90" W 098° 16' 44.80"	CLOUDY 53° NE 7	13:34	NT	NT	NT	1023	715.00	9,269	Baker Residence
04/01/19	04/01/2019 Lower S. Wall C	N 29° 38' 5.90" W 098° 16' 44.80"	CLOUDY 53° NE 7	13:34	NT	NT	NT	1023	715.00	6,329	City Property Line
04/01/19	04/01/2019 Lower S. Wall C	N 29° 38' 5.90" W 098° 16' 44.80"	CLOUDY 53° NE 7	13:34	0.038	20.0	111.0	1023	715.00	3,776	Holly - 9916 Trophy Oaks
04/01/19	04/01/2019 Lower S. Wall C	N 29° 38' 5.90" W 098° 16' 44.80"	CLOUDY 53° NE 7	13:34	NT	NT	NT	1023	715.00	9,315	Michels - 9118 Tuscan Hills
04/01/19	04/01/2019 Lower S. Wall C	N 29° 38' 5.90" W 098° 16' 44.80"	CLOUDY 53° NE 7	13:34	0.053	8.6	111.0	1023	715.00	5,162	Warden - 21375 Gunther Grove
04/02/19	04/02/2019 Base Pit S. Wall A	N 29° 38' 11.33" W 098° 16' 51.60"	SUNNY 62° S 6	11:36	NT	NT	NT	1236	645.00	8,556	Baker Residence
04/02/19	04/02/2019 Base Pit S. Wall A	N 29° 38' 11.33" W 098° 16' 51.60"	SUNNY 62° S 6	11:36	NT	NT	NT	1236	645.00	5,612	City Property Line
04/02/19	04/02/2019 Base Pit S. Wall A	N 29° 38' 11.33" W 098° 16' 51.60"	SUNNY 62° S 6	11:36	0.025	20.0	110.0	1236	645.00	3,085	Holly - 9916 Trophy Oaks
04/02/19	04/02/2019 Base Pit S. Wall A	N 29° 38' 11.33" W 098° 16' 51.60"	SUNNY 62° S 6	11:36	NT	NT	NT	1236	645.00	8,536	Michels - 9118 Tuscan Hills
04/02/19	04/02/2019 Base Pit S. Wall A	N 29° 38' 11.33" W 098° 16' 51.60"	SUNNY 62° S 6	11:36	0.033	16.7	113.0	1236	645.00	4,424	Warden - 21375 Gunther Grove
04/03/19	04/03/2019 Upper S. Wall C	N 29° 38' 2.59" W 098° 16' 48.59"	CLOUDY 65° SE 12	12:07	NT	NT	NT	1485	80.00	9,043	Baker Residence
04/03/19	04/03/2019 Upper S. Wall C	N 29° 38' 2.59" W 098° 16' 48.59"	CLOUDY 65° SE 12	12:07	NT	NT	NT	1485	80.00	6,106	City Property Line
04/03/19	04/03/2019 Upper S. Wall C	N 29° 38' 2.59" W 098° 16' 48.59"	CLOUDY 65° SE 12	12:07	NT	NT	NT	1485	80.00	3,559	Holly - 9916 Trophy Oaks
04/03/19	04/03/2019 Upper S. Wall C	N 29° 38' 2.59" W 098° 16' 48.59"	CLOUDY 65° SE 12	12:07	NT	NT	NT	1485	80.00	9,177	Michels - 9118 Tuscan Hills
04/03/19	04/03/2019 Upper S. Wall C	N 29° 38' 2.59" W 098° 16' 48.59"	CLOUDY 65° SE 12	12:07	NT	NT	NT	1485	80.00	4,978	Warden - 21375 Gunther Grove

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
APRIL 2019

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
04/04/19	04/04/2019 Upper S. Wall E	N 29° 38' 59.45" W 098° 16' 57.23"	CLOUDY 75° S 8	12:13	NT	NT	NT	1880	133.00	8,431	Baker Residence
04/04/19	04/04/2019 Upper S. Wall E	N 29° 38' 59.45" W 098° 16' 57.23"	CLOUDY 75° S 8	12:13	NT	NT	NT	1880	133.00	5,522	City Property Line
04/04/19	04/04/2019 Upper S. Wall E	N 29° 38' 59.45" W 098° 16' 57.23"	CLOUDY 75° S 8	12:13	NT	NT	NT	1880	133.00	3,014	Holly - 9916 Trophy Oaks
04/04/19	04/04/2019 Upper S. Wall E	N 29° 38' 59.45" W 098° 16' 57.23"	CLOUDY 75° S 8	12:13	NT	NT	NT	1880	133.00	4,459	Warden - 21375 Gunther Grove
04/04/19	04/04/2019 Upper S. Wall E	N 29° 38' 59.45" W 098° 16' 57.23"	CLOUDY 75° S 8	12:13	NT	NT	NT	1880	133.00	8,695	Michels - 9118 Tuscan Hills
04/05/19	04/05/2019 Lower S. Wall B	N 29° 38' 6.54" W 098° 16' 41.60"	CLOUDY 78° N 6	12:52	NT	NT	NT	1274	672.00	9,525	Baker Residence
04/05/19	04/05/2019 Lower S. Wall B	N 29° 38' 6.54" W 098° 16' 41.60"	CLOUDY 78° N 6	12:52	NT	NT	NT	1274	672.00	6,580	City Property Line
04/05/19	04/05/2019 Lower S. Wall B	N 29° 38' 6.54" W 098° 16' 41.60"	CLOUDY 78° N 6	12:52	0.045	22.7	118.0	1274	672.00	4,036	Holly - 9916 Trophy Oaks
04/05/19	04/05/2019 Lower S. Wall B	N 29° 38' 6.54" W 098° 16' 41.60"	CLOUDY 78° N 6	12:52	NT	NT	NT	1274	672.00	9,540	Michels - 9118 Tuscan Hills
04/05/19	04/05/2019 Lower S. Wall B	N 29° 38' 6.54" W 098° 16' 41.60"	CLOUDY 78° N 6	12:52	0.045	20.0	118.0	1274	672.00	5,408	Warden - 21375 Gunther Grove
04/09/19	04/09/2019 Lower S. Wall A	N 29° 38' 8.66" W 098° 16' 37.57"	SUNNY 79° E 4	11:32	NT	NT	NT	1170	529.00	9,821	Baker Residence
04/09/19	04/09/2019 Lower S. Wall A	N 29° 38' 8.66" W 098° 16' 37.57"	SUNNY 79° E 4	11:32	NT	NT	NT	1170	529.00	6,877	City Property Line
04/09/19	04/09/2019 Lower S. Wall A	N 29° 38' 8.66" W 098° 16' 37.57"	SUNNY 79° E 4	11:32	0.058	25.0	108.0	1170	529.00	4,346	Holly - 9916 Trophy Oaks
04/09/19	04/09/2019 Lower S. Wall A	N 29° 38' 8.66" W 098° 16' 37.57"	SUNNY 79° E 4	11:32	NT	NT	NT	1170	529.00	9,774	Michels - 9118 Tuscan Hills
04/09/19	04/09/2019 Lower S. Wall A	N 29° 38' 8.66" W 098° 16' 37.57"	SUNNY 79° E 4	11:32	0.043	12.8	109.0	1170	529.00	5,688	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
APRIL 2019**

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
04/10/19	04/10/2019 Upper S. East Face	N 29° 38' 7.60" W 098° 16' 32.74"	SUNNY 90° S 23	13:37	NT	NT	NT	2153	92.00	10,260	Baker Residence
04/10/19	04/10/2019 Upper S. East Face	N 29° 38' 7.60" W 098° 16' 32.74"	SUNNY 90° S 23	13:37	NT	NT	NT	2153	92.00	7,315	City Property Line
04/10/19	04/10/2019 Upper S. East Face	N 29° 38' 7.60" W 098° 16' 32.74"	SUNNY 90° S 23	13:37	NT	NT	NT	2153	92.00	4,783	Holly - 9916 Trophy Oaks
04/10/19	04/10/2019 Upper S. East Face	N 29° 38' 7.60" W 098° 16' 32.74"	SUNNY 90° S 23	13:37	NT	NT	NT	2153	92.00	10,207	Michels - 9118 Tuscan Hills
04/10/19	04/10/2019 Upper S. East Face	N 29° 38' 7.60" W 098° 16' 32.74"	SUNNY 90° S 23	13:37	NT	NT	NT	2153	92.00	6,126	Warden - 21375 Gunther Grove
04/11/19	04/11/2019 Base Pit East Wall	N 29° 38' 12.97" W 098° 16' 47.77"	CLOUDY 82° N 16	13:04	NT	NT	NT	1620	523.00	8,852	Baker Residence
04/11/19	04/11/2019 Base Pit East Wall	N 29° 38' 12.97" W 098° 16' 47.77"	CLOUDY 82° N 16	13:04	NT	NT	NT	1620	523.00	5,912	City Property Line
04/11/19	04/11/2019 Base Pit East Wall	N 29° 38' 12.97" W 098° 16' 47.77"	CLOUDY 82° N 16	13:04	0.045	21.7	108.0	1620	523.00	3,406	Holly - 9916 Trophy Oaks
04/11/19	04/11/2019 Base Pit East Wall	N 29° 38' 12.97" W 098° 16' 47.77"	CLOUDY 82° N 16	13:04	NT	NT	NT	1620	523.00	8,776	Michels - 9118 Tuscan Hills
04/11/19	04/11/2019 Base Pit East Wall	N 29° 38' 12.97" W 098° 16' 47.77"	CLOUDY 82° N 16	13:04	0.038	20.8	110.0	1620	523.00	4,711	Warden - 21375 Gunther Grove
04/12/19	04/12/2019 Lower S. Wall D	N 29° 38' 5.20" W 098° 16' 47.52"	SUNNY 70° E 13	12:21	NT	NT	NT	1178	726.00	9,057	Baker Residence
04/12/19	04/12/2019 Lower S. Wall D	N 29° 38' 5.20" W 098° 16' 47.52"	SUNNY 70° E 13	12:21	0.028	4.7	103.0	1178	726.00	6,114	City Property Line
04/12/19	04/12/2019 Lower S. Wall D	N 29° 38' 5.20" W 098° 16' 47.52"	SUNNY 70° E 13	12:21	0.050	8.1	110.0	1178	726.00	3,564	Holly - 9916 Trophy Oaks
04/12/19	04/12/2019 Lower S. Wall D	N 29° 38' 5.20" W 098° 16' 47.52"	SUNNY 70° E 13	12:21	NT	NT	NT	1178	726.00	9,134	Michels - 9118 Tuscan Hills
04/12/19	04/12/2019 Lower S. Wall D	N 29° 38' 5.20" W 098° 16' 47.52"	SUNNY 70° E 13	12:21	0.035	14.3	110.0	1178	726.00	4,962	Warden - 21375 Gunther Grove

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GARDEN RIDGE QUARRY COMMISSION
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GARDEN RIDGE, TEXAS
APRIL 2019

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
04/16/19	04/16/2019 Lower S. Wall A	N 29° 38' 7.89" W 098° 16' 37.66"	CLOUDY 78° S 28	12:57	NT	NT	NT	1392	584.00	9,831	Baker Residence
04/16/19	04/16/2019 Lower S. Wall A	N 29° 38' 7.89" W 098° 16' 37.66"	CLOUDY 78° S 28	12:57	NT	NT	NT	1392	584.00	6,885	City Property Line
04/16/19	04/16/2019 Lower S. Wall A	N 29° 38' 7.89" W 098° 16' 37.66"	CLOUDY 78° S 28	12:57	0.038	20.0	112.0	1392	584.00	4,351	Holly - 9916 Trophy Oaks
04/16/19	04/16/2019 Lower S. Wall A	N 29° 38' 7.89" W 098° 16' 37.66"	CLOUDY 78° S 28	12:57	NT	NT	NT	1392	584.00	9,798	Michels - 9118 Tuscan Hills
04/16/19	04/16/2019 Lower S. Wall A	N 29° 38' 7.89" W 098° 16' 37.66"	CLOUDY 78° S 28	12:57	0.038	9.1	116.0	1392	584.00	5,700	Warden - 21375 Gunther Grove
04/17/19	04/17/2019 Upper S. Wall A	N 29° 38' 5.63" W 098° 16' 38.64"	CLOUDY 79° S 23	12:54	NT	NT	NT	2630	82.00	9,801	Baker Residence
04/17/19	04/17/2019 Upper S. Wall A	N 29° 38' 5.63" W 098° 16' 38.64"	CLOUDY 79° S 23	12:54	NT	NT	NT	2630	82.00	6,855	City Property Line
04/17/19	04/17/2019 Upper S. Wall A	N 29° 38' 5.63" W 098° 16' 38.64"	CLOUDY 79° S 23	12:54	NT	NT	NT	2630	82.00	4,310	Holly - 9916 Trophy Oaks
04/17/19	04/17/2019 Upper S. Wall A	N 29° 38' 5.63" W 098° 16' 38.64"	CLOUDY 79° S 23	12:54	NT	NT	NT	2630	82.00	9,815	Michels - 9118 Tuscan Hills
04/17/19	04/17/2019 Upper S. Wall A	N 29° 38' 5.63" W 098° 16' 38.64"	CLOUDY 79° S 23	12:54	NT	NT	NT	2630	82.00	5,684	Warden - 21375 Gunther Grove
04/22/19	04/22/2019 Lower S. Wall C	N 29° 38' 6.13" W 098° 16' 41.85"	CLOUDY 75° SE 21	13:36	NT	NT	NT	1105	677.00	9,514	Baker Residence
04/22/19	04/22/2019 Lower S. Wall C	N 29° 38' 6.13" W 098° 16' 41.85"	CLOUDY 75° SE 21	13:36	0.028	5.0	107.0	1105	677.00	6,569	City Property Line
04/22/19	04/22/2019 Lower S. Wall C	N 29° 38' 6.13" W 098° 16' 41.85"	CLOUDY 75° SE 21	13:36	0.043	22.7	113.0	1105	677.00	4,024	Holly - 9916 Trophy Oaks
04/22/19	04/22/2019 Lower S. Wall C	N 29° 38' 6.13" W 098° 16' 41.85"	CLOUDY 75° SE 21	13:36	NT	NT	NT	1105	677.00	9,538	Michels - 9118 Tuscan Hills
04/22/19	04/22/2019 Lower S. Wall C	N 29° 38' 6.13" W 098° 16' 41.85"	CLOUDY 75° SE 21	13:36	0.053	9.1	114.0	1105	677.00	5,400	Warden - 21375 Gunther Grove

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

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
APRIL 2019

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
04/23/19	04/23/2019 Upper S. East Face	N 29° 38' 7.45" W 098° 16' 31.27"	CLOUDY 77° S 12	13:17	NT	NT	NT	1925	98.00	10,389	Baker Residence
04/23/19	04/23/2019 Upper S. East Face	N 29° 38' 7.45" W 098° 16' 31.27"	CLOUDY 77° S 12	13:17	NT	NT	NT	1925	98.00	7,445	City Property Line
04/23/19	04/23/2019 Upper S. East Face	N 29° 38' 7.45" W 098° 16' 31.27"	CLOUDY 77° S 12	13:17	NT	NT	NT	1925	98.00	4,913	Holly - 9916 Trophy Oaks
04/23/19	04/23/2019 Upper S. East Face	N 29° 38' 7.45" W 098° 16' 31.27"	CLOUDY 77° S 12	13:17	NT	NT	NT	1925	98.00	10,333	Michels - 9118 Tuscan Hills
04/23/19	04/23/2019 Upper S. East Face	N 29° 38' 7.45" W 098° 16' 31.27"	CLOUDY 77° S 12	13:17	NT	NT	NT	1925	98.00	6,220	Warden - 21375 Gunther Grove
04/26/19	04/26/2019 Lower S. Wall D	N 29° 38' 4.95" W 098° 16' 45.59"	SUNNY 77° NE 9	11:55	NT	NT	NT	1384	747.00	9,228	Baker Residence
04/26/19	04/26/2019 Lower S. Wall D	N 29° 38' 4.95" W 098° 16' 45.59"	SUNNY 77° NE 9	11:55	NT	NT	NT	1384	747.00	6,284	City Property Line
04/26/19	04/26/2019 Lower S. Wall D	N 29° 38' 4.95" W 098° 16' 45.59"	SUNNY 77° NE 9	11:55	0.030	8.1	106.0	1384	747.00	3,734	Holly - 9916 Trophy Oaks
04/26/19	04/26/2019 Lower S. Wall D	N 29° 38' 4.95" W 098° 16' 45.59"	SUNNY 77° NE 9	11:55	NT	NT	NT	1384	747.00	9,297	Michels - 9118 Tuscan Hills
04/26/19	04/26/2019 Lower S. Wall D	N 29° 38' 4.95" W 098° 16' 45.59"	SUNNY 77° NE 9	11:55	0.033	16.7	106.0	1384	747.00	5,130	Warden - 21375 Gunther Grove
04/29/19	04/29/2019 Base Pit West Wall B	N 29° 38' 16.68" W 098° 17' 3.24"	CLOUDY 80° SE 14	14:37	0.028	15.6	100.0	1118	663.00	7,444	Baker Residence
04/29/19	04/29/2019 Base Pit West Wall B	N 29° 38' 16.68" W 098° 17' 3.24"	CLOUDY 80° SE 14	14:37	0.038	5.4	101.0	1118	663.00	4,509	City Property Line
04/29/19	04/29/2019 Base Pit West Wall B	N 29° 38' 16.68" W 098° 17' 3.24"	CLOUDY 80° SE 14	14:37	0.213	17.9	107.0	1118	663.00	2,043	Holly - 9916 Trophy Oaks
04/29/19	04/29/2019 Base Pit West Wall B	N 29° 38' 16.68" W 098° 17' 3.24"	CLOUDY 80° SE 14	14:37	0.033	16.7	100.0	1118	663.00	7,378	Michels - 9118 Tuscan Hills
04/29/19	04/29/2019 Base Pit West Wall B	N 29° 38' 16.68" W 098° 17' 3.24"	CLOUDY 80° SE 14	14:37	0.173	7.5	108.0	1118	663.00	3,300	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
APRIL 2019**

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
04/30/19	04/30/2019 Lower S. Wall A	N 29° 38' 7.57" W 098° 16' 37.84"	CLOUDY 75° SE 11	10:51	NT	NT	NT	1007	619.00	9,822	Baker Residence
04/30/19	04/30/2019 Lower S. Wall A	N 29° 38' 7.57" W 098° 16' 37.84"	CLOUDY 75° SE 11	10:51	NT	NT	NT	1007	619.00	6,877	City Property Line
04/30/19	04/30/2019 Lower S. Wall A	N 29° 38' 7.57" W 098° 16' 37.84"	CLOUDY 75° SE 11	10:51	0.028	21.7	103.0	1007	619.00	4,341	Holly - 9916 Trophy Oaks
04/30/19	04/30/2019 Lower S. Wall A	N 29° 38' 7.57" W 098° 16' 37.84"	CLOUDY 75° SE 11	10:51	NT	NT	NT	1007	619.00	9,797	Michels - 9118 Tuscan Hills
04/30/19	04/30/2019 Lower S. Wall A	N 29° 38' 7.57" W 098° 16' 37.84"	CLOUDY 75° SE 11	10:51	0.033	11.1	110.0	1007	619.00	5,694	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to Quarry Commission
2019-13Q	April	4/16/2019	12:57pm	4/16/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	5	1	2800	Yes	"Blast this afternoon shook foundation of house as well as the walls." "I've been working from my house since January 2019 and this is the strongest I've felt in this time."	4/16/2019
2019-14Q	April	4/22/2019	1:36pm	4/22/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Felt foundation movement and wall shaking followed	4/22/2019

Print

Citizen Quarry Blast Impact Report - Submission #1213

Date Submitted: 4/16/2019

First Name

Armando

Last Name

Diaz

Report Date

4/16/2019



Phone Number:

2107210112

Address1

21010 Gunther Grove

Blast Date/Time:

12:57pm

Please describe the event.

Blast this afternoon shook foundation of house as well as the walls.

How did this blast compare to other blasts?

I've been working from my home since January 2019 and this is the strongest I've felt in this time

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)

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

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

Yes

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

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

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

2019-13Q

Print

Citizen Quarry Blast Impact Report - Submission #1220

Date Submitted: 4/22/2019

First Name

Armando

Last Name

Diaz

Report Date

4/22/2019



Phone Number:

2107210112

Address1

21010 Gunther Grove

Blast Date/Time:

1:36pm / 3-22-2019

Please describe the event.

Felt foundation movement and wall shaking followed

How did this blast compare to other blasts?

About the same as normal blasting

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

3

What was your activity at the time of blast?

At home office working on computer

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

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

No

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

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

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

2019-14Q

Quarry Commission Rolling Attendance

Commissioner	1/8/18 Regular Meeting	3/12/18 Regular Meeting	5/14/18 Regular Meeting	7/9/18 Regular Meeting	9/10/18 Regular Meeting	11/5/18 Regular Meeting	1/7/19 Special Meeting	1/14/19 Regular Meeting	3/11/19 Regular Meeting	5/13/19 Regular Meeting
Shands	P	P	P	P	P	P	P	P	P	
Barucky	P	P	P	P	P	P	P	P	P	
DuBois	P	P	P	A	P	P	A	A	A	
Haddad	P	P	P	P	P	P	P	P	P	
Holloway	P	P	A	P	P	A	P	P	P	A
Holly	P	P	P	P	P	E	P	P	P	
Mudge	P	P	P	A	P	P	E	P	P	

P	Present
P-QNM	Present but quorum not met
E	Excused for reasons allowed in Ord. 210
A	Voluntary Announced Absense
U	Unannounced Absence
	Not member yet

Quarry Commission's Attendance at City Council Regular Meetings

[illegible]

Future Agenda Items

Quarry Commission

July 8, 2019

Regular Meeting

(no meeting in June 2019)

- | | | |
|------------------------|------------|--|
| 12 days before Meeting | (06/26/19) | Commission and Staff items are due |
| 10 days before Meeting | (06/28/19) | City Administrator and Chair review agenda.
City Attorney is sent the agenda for approval. |
| 7 days before Meeting | (07/01/19) | 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 | (07/04/19) | Post Agenda Packet to City Website |
| 3 days before Meeting | (07/05/19) | (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

Municipal Court = Gray

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 05-13-19

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
 - b. Announce next meeting (if necessary) September 9, 2019 at 6pm

Education/Training Session

Executive Session

PENDING FUTURE AGENDA ITEMS