



City of Garden Ridge

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

AGENDA QUARRY COMMISSION REGULAR MEETING MONDAY, JULY 11, 2022, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, July 11, 2022, 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) 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.
4. Items applicable to the Quarry Commission discussed at the June City Council Meeting.
5. Review historical blasting data spreadsheet.

- b) Education/Training
 - 1. Discuss future education/training sessions and Grapevine articles.
 - c) Future Agenda Items
 - 1. Commissioners input on agenda items.
 - 2. Announce the date, time, and location for next meeting (September 12, 2022, at 6pm in 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, Marisa Spencer, posted this Agenda at 11:00 a.m. on July 8, 2022, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Marisa Spencer
City Secretary



Vibra-Tech

VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

June 13, 2022

Mr. Jerry Barucky
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Barucky,

Enclosed is the analysis for the blasting conducted during the month of May 2022 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2022 Blast Data Management Book.

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

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

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

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

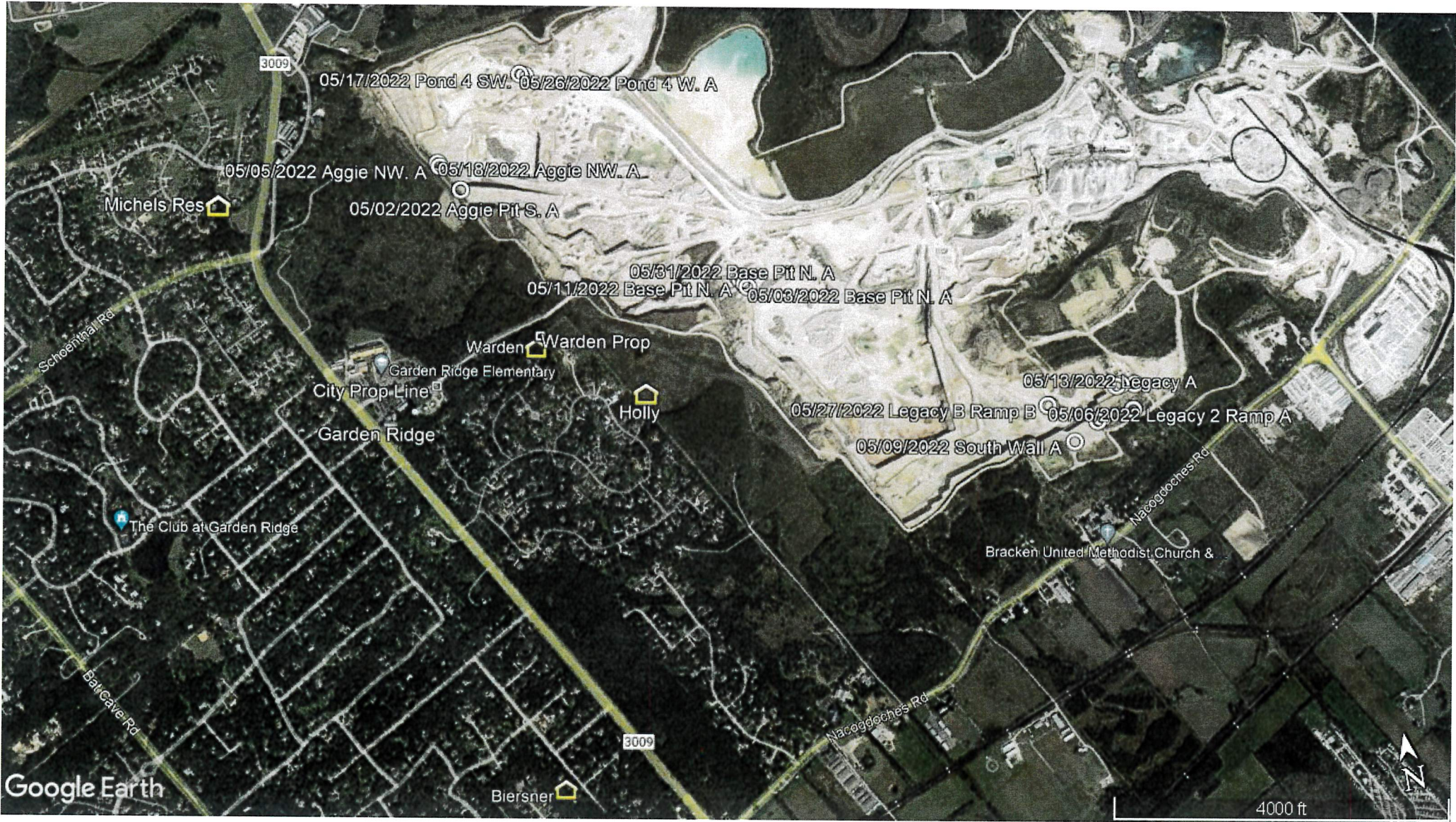
If there are any additional questions, please contact the Quarry Commission, Johnell Holly at (210) 651-7358, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

Respectfully submitted,

VIBRA-TECH, INC.

Nicholas Reitinger
Area Manager

cc: William Saly, Hanson – Servtex



05/17/2022 Pond 4 SW. 05/26/2022 Pond 4 W. A

05/05/2022 Aggie NW. A 05/18/2022 Aggie NW. A

Michels Res

05/02/2022 Aggie Pit S. A

05/31/2022 Base Pit N. A
05/11/2022 Base Pit N. A 05/03/2022 Base Pit N. A

Warden Warden Prop

Garden Ridge Elementary
City Prop Line

Holly

Garden Ridge

05/13/2022 Legacy A
05/27/2022 Legacy B Ramp B 05/06/2022 Legacy 2 Ramp A

05/09/2022 South Wall A

The Club at Garden Ridge

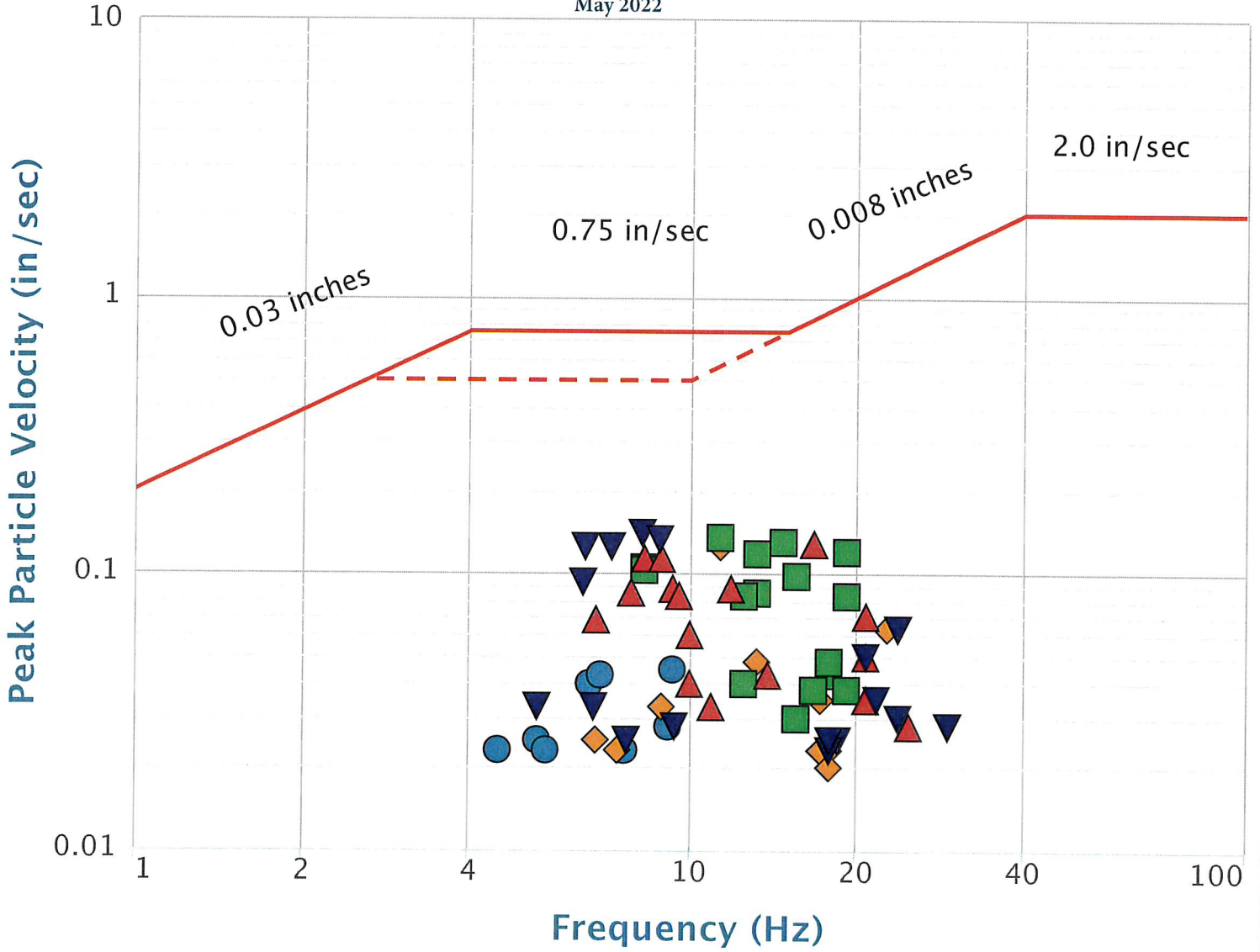
Bracken United Methodist Church &

Google Earth

Biersner

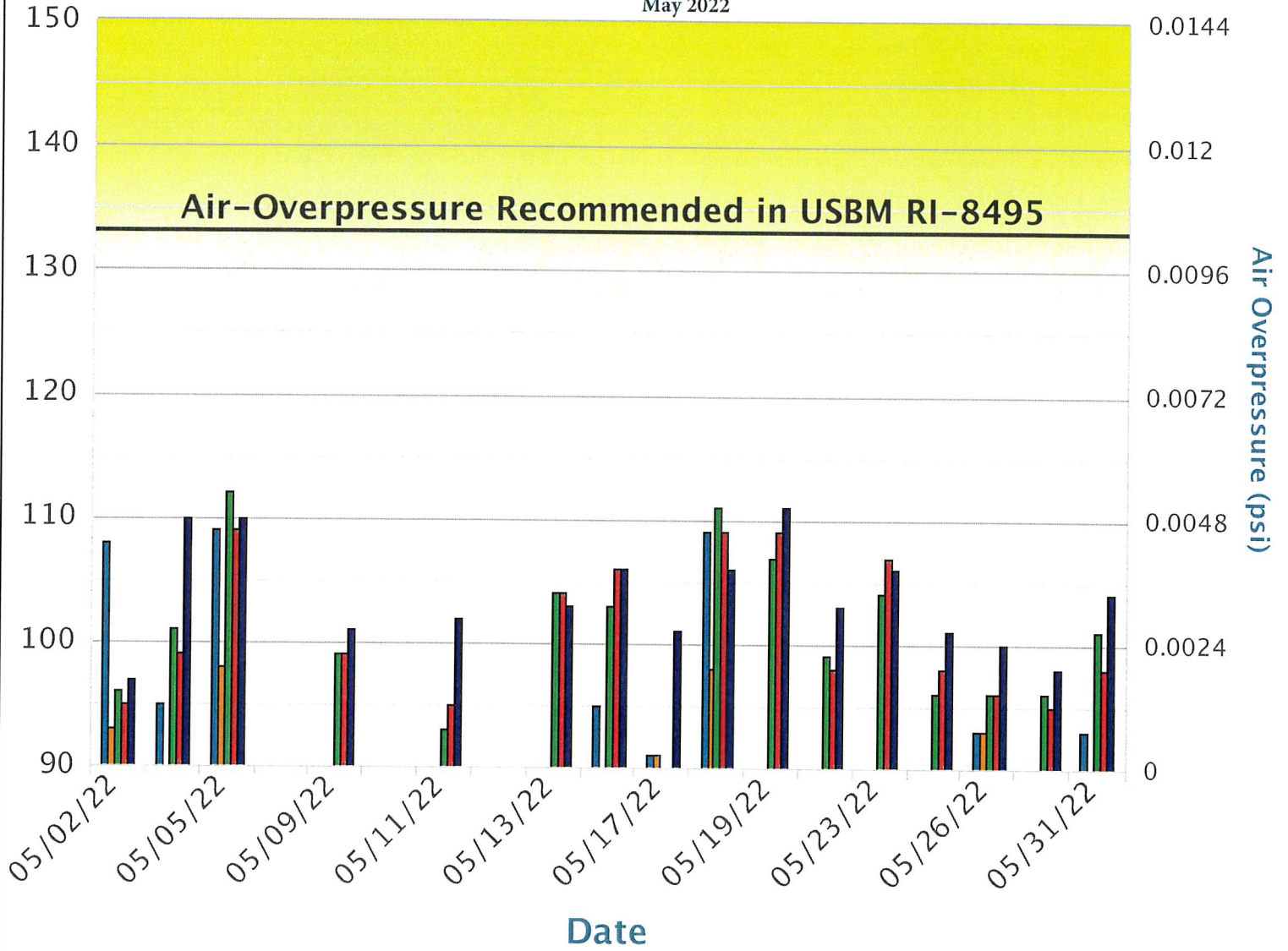
4000 ft

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
May 2022



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

Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
May 2022



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MAY 2022**

| 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 |
|----------|---------------------------|---------------------------------------|---------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/02/22 | 05/02/2022 Aggie Pit S. A | N 29° 38' 45.42" W 098° 17' 46.42" | CLOUDY 80° S 22 | 12:26 | N/T | N/T | N/A | 520 | 407 | 7578 | Biersner Residence |
| 05/02/22 | 05/02/2022 Aggie Pit S. A | N 29° 38' 45.42" W 098° 17' 46.42" | CLOUDY 80° S 22 | 12:26 | 0.04 | 6.6 | 108 | 520 | 407 | 2464 | City Property Line |
| 05/02/22 | 05/02/2022 Aggie Pit S. A | N 29° 38' 45.42" W 098° 17' 46.42" | CLOUDY 80° S 22 | 12:26 | 0.048 | 13.2 | 93 | 520 | 407 | 2960 | Michels Residence |
| 05/02/22 | 05/02/2022 Aggie Pit S. A | N 29° 38' 45.42" W 098° 17' 46.42" | CLOUDY 80° S 22 | 12:26 | 0.105 | 8.3 | 96 | 520 | 407 | 2096 | Warden Prop Line |
| 05/02/22 | 05/02/2022 Aggie Pit S. A | N 29° 38' 45.42" W 098° 17' 46.42" | CLOUDY 80° S 22 | 12:26 | 0.068 | 6.8 | 95 | 520 | 407 | 2340 | Warden Residence |
| 05/03/22 | 05/03/2022 Base Pit N. A | N 29° 38' 27.44" W 098° 17' 9.42" | CLOUDY 85° SE 17 | 12:50 | N/T | N/T | N/A | 1095 | 501 | 6618 | Biersner Residence |
| 05/03/22 | 05/03/2022 Base Pit N. A | N 29° 38' 27.44" W 098° 17' 9.42" | CLOUDY 85° SE 17 | 12:50 | 0.023 | 4.5 | 95 | 1095 | 501 | 3963 | City Property Line |
| 05/03/22 | 05/03/2022 Base Pit N. A | N 29° 38' 27.44" W 098° 17' 9.42" | CLOUDY 85° SE 17 | 12:50 | 0.14 | 8.2 | 110 | 1095 | 501 | 1948 | Holly Residence |
| 05/03/22 | 05/03/2022 Base Pit N. A | N 29° 38' 27.44" W 098° 17' 9.42" | CLOUDY 85° SE 17 | 12:50 | 0.033 | 8.9 | 83 | 1095 | 501 | 6521 | Michels Residence |
| 05/03/22 | 05/03/2022 Base Pit N. A | N 29° 38' 27.44" W 098° 17' 9.42" | CLOUDY 85° SE 17 | 12:50 | 0.128 | 16.7 | 99 | 1095 | 501 | 2729 | Warden Residence |
| 05/05/22 | 05/05/2022 Aggie NW. A | N 29° 38' 48.77" W 098° 17' 48.74" | CLOUDY 82° S 16 | 12:54 | N/T | N/T | N/A | 1166 | 1596 | 7920 | Biersner Residence |
| 05/05/22 | 05/05/2022 Aggie NW. A | N 29° 38' 48.77" W 098° 17' 48.74" | CLOUDY 82° S 16 | 12:54 | 0.045 | 9.3 | 109 | 1166 | 1596 | 2751 | City Property Line |
| 05/05/22 | 05/05/2022 Aggie NW. A | N 29° 38' 48.77" W 098° 17' 48.74" | CLOUDY 82° S 16 | 12:54 | 0.125 | 11.4 | 98 | 1166 | 1596 | 2758 | Michels Residence |
| 05/05/22 | 05/05/2022 Aggie NW. A | N 29° 38' 48.77" W 098° 17' 48.74" | CLOUDY 82° S 16 | 12:54 | 0.12 | 19.2 | 112 | 1166 | 1596 | 2484 | Warden Prop Line |
| 05/05/22 | 05/05/2022 Aggie NW. A | N 29° 38' 48.77" W 098° 17' 48.74" | CLOUDY 82° S 16 | 12:54 | 0.088 | 11.9 | 109 | 1166 | 1596 | 2721 | Warden Residence |

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MAY 2022**

| 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 |
|----------|-------------------------------|--------------------------------------|----------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/06/22 | 05/06/2022 Legacy 2 Ramp A | N 29° 38' 6.40" W 098° 16' 31.57" | SUNNY 92° SW 12 | 13:58 | N/T | N/T | N/A | 1488 | 317 | 7528 | Biersner Residence |
| 05/06/22 | 05/06/2022 Legacy 2 Ramp A | N 29° 38' 6.40" W 098° 16' 31.57" | SUNNY 92° SW 12 | 13:58 | N/T | N/T | N/A | 1488 | 317 | 7427 | City Property Line |
| 05/06/22 | 05/06/2022 Legacy 2 Ramp A | N 29° 38' 6.40" W 098° 16' 31.57" | SUNNY 92° SW 12 | 13:58 | 0.023 | 17.9 | 89 | 1488 | 317 | 4902 | Holly Residence |
| 05/06/22 | 05/06/2022 Legacy 2 Ramp A | N 29° 38' 6.40" W 098° 16' 31.57" | SUNNY 92° SW 12 | 13:58 | N/T | N/T | N/A | 1488 | 317 | 10393 | Michels Residence |
| 05/06/22 | 05/06/2022 Legacy 2 Ramp A | N 29° 38' 6.40" W 098° 16' 31.57" | SUNNY 92° SW 12 | 13:58 | N/T | N/T | N/A | 1488 | 317 | 6254 | Warden Residence |
| 05/09/22 | 05/09/2022 South Wall A | N 29° 38' 1.45" W 098° 16' 28.86" | SUNNY 90° SE 30 | 11:45 | N/T | N/T | N/A | 748 | 410 | 7516 | Biersner Residence |
| 05/09/22 | 05/09/2022 South Wall A | N 29° 38' 1.45" W 098° 16' 28.86" | SUNNY 90° SE 30 | 11:45 | N/T | N/T | N/A | 748 | 410 | 7779 | City Property Line |
| 05/09/22 | 05/09/2022 South Wall A | N 29° 38' 1.45" W 098° 16' 28.86" | SUNNY 90° SE 30 | 11:45 | 0.03 | 23.8 | 101 | 748 | 410 | 5246 | Holly Residence |
| 05/09/22 | 05/09/2022 South Wall A | N 29° 38' 1.45" W 098° 16' 28.86" | SUNNY 90° SE 30 | 11:45 | N/T | N/T | N/A | 748 | 410 | 10817 | Michels Residence |
| 05/09/22 | 05/09/2022 South Wall A | N 29° 38' 1.45" W 098° 16' 28.86" | SUNNY 90° SE 30 | 11:45 | 0.028 | 25 | 99 | 748 | 410 | 6632 | Warden Residence |
| 05/10/22 | 05/10/2022 Legacy Stripping A | N 29° 38' 7.12" W 098° 16' 19.01" | PARTLY CLOUDY 94° SE 23 | 12:25 | N/T | N/T | N/A | 1824 | 172 | 8545 | Biersner Residence |
| 05/10/22 | 05/10/2022 Legacy Stripping A | N 29° 38' 7.12" W 098° 16' 19.01" | PARTLY CLOUDY 94° SE 23 | 12:25 | N/T | N/T | N/A | 1824 | 172 | 8497 | City Property Line |
| 05/10/22 | 05/10/2022 Legacy Stripping A | N 29° 38' 7.12" W 098° 16' 19.01" | PARTLY CLOUDY 94° SE 23 | 12:25 | N/T | N/T | N/A | 1824 | 172 | 5983 | Holly Residence |
| 05/10/22 | 05/10/2022 Legacy Stripping A | N 29° 38' 7.12" W 098° 16' 19.01" | PARTLY CLOUDY 94° SE 23 | 12:25 | N/T | N/T | N/A | 1824 | 172 | 11391 | Michels Residence |
| 05/10/22 | 05/10/2022 Legacy Stripping A | N 29° 38' 7.12" W 098° 16' 19.01" | PARTLY CLOUDY 94° SE 23 | 12:25 | N/T | N/T | N/A | 1824 | 172 | 7309 | Warden Residence |

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MAY 2022**

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|----------|------------------------------|--------------------------------------|-------------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/11/22 | 05/11/2022 Base Pit N. A | N 29° 38' 27.86" W 098° 17' 9.73" | SUNNY 92° SE 27 | 13:02 | N/T | N/T | N/A | 1095 | 496 | 6642 | Biersner Residence |
| 05/11/22 | 05/11/2022 Base Pit N. A | N 29° 38' 27.86" W 098° 17' 9.73" | SUNNY 92° SE 27 | 13:02 | N/T | N/T | N/A | 1095 | 496 | 3942 | City Property Line |
| 05/11/22 | 05/11/2022 Base Pit N. A | N 29° 38' 27.86" W 098° 17' 9.73" | SUNNY 92° SE 27 | 13:02 | 0.133 | 8.8 | 102 | 1095 | 496 | 1956 | Holly Residence |
| 05/11/22 | 05/11/2022 Base Pit N. A | N 29° 38' 27.86" W 098° 17' 9.73" | SUNNY 92° SE 27 | 13:02 | 0.023 | 17.9 | 85 | 1095 | 496 | 6482 | Michels Residence |
| 05/11/22 | 05/11/2022 Base Pit N. A | N 29° 38' 27.86" W 098° 17' 9.73" | SUNNY 92° SE 27 | 13:02 | 0.113 | 8.3 | 95 | 1095 | 496 | 2710 | Warden Residence |
| 05/12/22 | 05/12/2022 South Stripping E | N 29° 38' 4.04" W 098° 16' 19.93" | PARTLY CLOUDY 94° SE 23 | 14:16 | N/T | N/T | N/A | 2988 | 76 | 8340 | Biersner Residence |
| 05/12/22 | 05/12/2022 South Stripping E | N 29° 38' 4.04" W 098° 16' 19.93" | PARTLY CLOUDY 94° SE 23 | 14:16 | N/T | N/T | N/A | 2988 | 76 | 8479 | City Property Line |
| 05/12/22 | 05/12/2022 South Stripping E | N 29° 38' 4.04" W 098° 16' 19.93" | PARTLY CLOUDY 94° SE 23 | 14:16 | N/T | N/T | N/A | 2988 | 76 | 5954 | Holly Residence |
| 05/12/22 | 05/12/2022 South Stripping E | N 29° 38' 4.04" W 098° 16' 19.93" | PARTLY CLOUDY 94° SE 23 | 14:16 | N/T | N/T | N/A | 2988 | 76 | 11430 | Michels Residence |
| 05/12/22 | 05/12/2022 South Stripping E | N 29° 38' 4.04" W 098° 16' 19.93" | PARTLY CLOUDY 94° SE 23 | 14:16 | N/T | N/T | N/A | 2988 | 76 | 7306 | Warden Residence |
| 05/13/22 | 05/13/2022 Legacy A | N 29° 38' 7.25" W 098° 16' 21.55" | SUNNY 94° SE 15 | 15:04 | N/T | N/T | N/A | 1232 | 612 | 8349 | Biersner Residence |
| 05/13/22 | 05/13/2022 Legacy A | N 29° 38' 7.25" W 098° 16' 21.55" | SUNNY 94° SE 15 | 15:04 | N/T | N/T | N/A | 1232 | 612 | 8275 | City Property Line |
| 05/13/22 | 05/13/2022 Legacy A | N 29° 38' 7.25" W 098° 16' 21.55" | SUNNY 94° SE 15 | 15:04 | 0.025 | 7.7 | 103 | 1232 | 612 | 5760 | Holly Residence |
| 05/13/22 | 05/13/2022 Legacy A | N 29° 38' 7.25" W 098° 16' 21.55" | SUNNY 94° SE 15 | 15:04 | N/T | N/T | N/A | 1232 | 612 | 11177 | Michels Residence |
| 05/13/22 | 05/13/2022 Legacy A | N 29° 38' 7.25" W 098° 16' 21.55" | SUNNY 94° SE 15 | 15:04 | 0.05 | 20.8 | 104 | 1232 | 612 | 7088 | Warden Residence |

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|----------|------------------------|---------------------------------------|-------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/16/22 | 05/16/2022 Base Pit N. | N 29° 38' 27.86" W 098° 17' 9.67" | CLEAR 85° SE 8 | 11:50 | N/T | N/T | N/A | 1095 | 478 | 6644 | Biersner Residence |
| 05/16/22 | 05/16/2022 Base Pit N. | N 29° 38' 27.86" W 098° 17' 9.67" | CLEAR 85° SE 8 | 11:50 | 0.025 | 5.3 | 95 | 1095 | 478 | 3947 | City Property Line |
| 05/16/22 | 05/16/2022 Base Pit N. | N 29° 38' 27.86" W 098° 17' 9.67" | CLEAR 85° SE 8 | 11:50 | 0.125 | 7.2 | 106 | 1095 | 478 | 1959 | Holly Residence |
| 05/16/22 | 05/16/2022 Base Pit N. | N 29° 38' 27.86" W 098° 17' 9.67" | CLEAR 85° SE 8 | 11:50 | 0.023 | 17.2 | 85 | 1095 | 478 | 6487 | Michels Residence |
| 05/16/22 | 05/16/2022 Base Pit N. | N 29° 38' 27.86" W 098° 17' 9.67" | CLEAR 85° SE 8 | 11:50 | 0.088 | 9.3 | 106 | 1095 | 478 | 2715 | Warden Residence |
| 05/17/22 | 05/17/2022 Pond 4 SW. | N 29° 38' 58.53" W 098° 17' 34.85" | SUNNY 92° S 25 | 12:44 | N/T | N/T | N/A | 1932 | 297 | 8965 | Biersner Residence |
| 05/17/22 | 05/17/2022 Pond 4 SW. | N 29° 38' 58.53" W 098° 17' 34.85" | SUNNY 92° S 25 | 12:44 | 0.023 | 7.6 | 91 | 1932 | 297 | 4066 | City Property Line |
| 05/17/22 | 05/17/2022 Pond 4 SW. | N 29° 38' 58.53" W 098° 17' 34.85" | SUNNY 92° S 25 | 12:44 | 0.035 | 17.2 | 91 | 1932 | 297 | 4142 | Michels Residence |
| 05/17/22 | 05/17/2022 Pond 4 SW. | N 29° 38' 58.53" W 098° 17' 34.85" | SUNNY 92° S 25 | 12:44 | 0.085 | 13.2 | 90 | 1932 | 297 | 3332 | Warden Prop Line |
| 05/17/22 | 05/17/2022 Pond 4 SW. | N 29° 38' 58.53" W 098° 17' 34.85" | SUNNY 92° S 25 | 12:44 | 0.07 | 20.8 | 90 | 1932 | 297 | 3627 | Warden Residence |
| 05/18/22 | 05/18/2022 Aggie NW. A | N 29° 38' 49.25" W 098° 17' 48.91" | SUNNY 95° S 25 | 15:03 | N/T | N/T | N/A | 1080 | 1701 | 7969 | Biersner Residence |
| 05/18/22 | 05/18/2022 Aggie NW. A | N 29° 38' 49.25" W 098° 17' 48.91" | SUNNY 95° S 25 | 15:03 | 0.043 | 6.9 | 109 | 1080 | 1701 | 2796 | City Property Line |
| 05/18/22 | 05/18/2022 Aggie NW. A | N 29° 38' 49.25" W 098° 17' 48.91" | SUNNY 95° S 25 | 15:03 | 0.063 | 22.7 | 98 | 1080 | 1701 | 2746 | Michels Residence |
| 05/18/22 | 05/18/2022 Aggie NW. A | N 29° 38' 49.25" W 098° 17' 48.91" | SUNNY 95° S 25 | 15:03 | 0.083 | 12.5 | 111 | 1080 | 1701 | 2535 | Warden Prop Line |
| 05/18/22 | 05/18/2022 Aggie NW. A | N 29° 38' 49.25" W 098° 17' 48.91" | SUNNY 95° S 25 | 15:03 | 0.083 | 9.6 | 109 | 1080 | 1701 | 2772 | Warden Residence |

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|----------|--------------------------|---------------------------------------|---------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/19/22 | 05/19/2022 Legacy E. B | N 29° 38' 3.43" W 098° 16' 25.15" | SUNNY 83° S 25 | 11:30 | N/T | N/T | N/A | 1230 | 701 | 7896 | Biersner Residence |
| 05/19/22 | 05/19/2022 Legacy E. B | N 29° 38' 3.43" W 098° 16' 25.15" | SUNNY 83° S 25 | 11:30 | N/T | N/T | N/A | 1230 | 701 | 8045 | City Property Line |
| 05/19/22 | 05/19/2022 Legacy E. B | N 29° 38' 3.43" W 098° 16' 25.15" | SUNNY 83° S 25 | 11:30 | 0.025 | 17.9 | 111 | 1230 | 701 | 5516 | Holly Residence |
| 05/19/22 | 05/19/2022 Legacy E. B | N 29° 38' 3.43" W 098° 16' 25.15" | SUNNY 83° S 25 | 11:30 | N/T | N/T | N/A | 1230 | 701 | 11031 | Michels Residence |
| 05/19/22 | 05/19/2022 Legacy E. B | N 29° 38' 3.43" W 098° 16' 25.15" | SUNNY 83° S 25 | 11:30 | 0.035 | 20.8 | 109 | 1230 | 701 | 6881 | Warden Residence |
| 05/20/22 | 05/20/2022 Base Pit N. A | N 29° 38' 28.53" W 098° 17' 10.19" | CLEAR 89° SE 28 | 11:32 | N/T | N/T | N/A | 1095 | 531 | 6682 | Biersner Residence |
| 05/20/22 | 05/20/2022 Base Pit N. A | N 29° 38' 28.53" W 098° 17' 10.19" | CLEAR 89° SE 28 | 11:32 | N/T | N/T | N/A | 1095 | 531 | 3913 | City Property Line |
| 05/20/22 | 05/20/2022 Base Pit N. A | N 29° 38' 28.53" W 098° 17' 10.19" | CLEAR 89° SE 28 | 11:32 | 0.125 | 6.5 | 103 | 1095 | 531 | 1972 | Holly Residence |
| 05/20/22 | 05/20/2022 Base Pit N. A | N 29° 38' 28.53" W 098° 17' 10.19" | CLEAR 89° SE 28 | 11:32 | 0.023 | 7.4 | 85 | 1095 | 531 | 6424 | Michels Residence |
| 05/20/22 | 05/20/2022 Base Pit N. A | N 29° 38' 28.53" W 098° 17' 10.19" | CLEAR 89° SE 28 | 11:32 | 0.113 | 8.9 | 98 | 1095 | 531 | 2683 | Warden Residence |
| 05/23/22 | 05/23/2022 Legacy E. A | N 29° 38' 7.36" W 098° 16' 20.86" | CLOUDY 82° SE 21 | 14:02 | N/T | N/T | N/A | 1080 | 1105 | 8409 | Biersner Residence |
| 05/23/22 | 05/23/2022 Legacy E. A | N 29° 38' 7.36" W 098° 16' 20.86" | CLOUDY 82° SE 21 | 14:02 | N/T | N/T | N/A | 1080 | 1105 | 8332 | City Property Line |
| 05/23/22 | 05/23/2022 Legacy E. A | N 29° 38' 7.36" W 098° 16' 20.86" | CLOUDY 82° SE 21 | 14:02 | 0.028 | 29.4 | 106 | 1080 | 1105 | 5819 | Holly Residence |
| 05/23/22 | 05/23/2022 Legacy E. A | N 29° 38' 7.36" W 098° 16' 20.86" | CLOUDY 82° SE 21 | 14:02 | N/T | N/T | N/A | 1080 | 1105 | 11230 | Michels Residence |
| 05/23/22 | 05/23/2022 Legacy E. A | N 29° 38' 7.36" W 098° 16' 20.86" | CLOUDY 82° SE 21 | 14:02 | 0.033 | 10.9 | 107 | 1080 | 1105 | 7145 | Warden Residence |

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MAY 2022**

| 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 |
|----------|----------------------------|---------------------------------------|----------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 05/25/22 | 05/25/2022 Legacy E. B | N 29° 38' 3.73" W 098° 16' 24.46" | PARTLY CLOUDY 71° NW 25 | 12:39 | N/T | N/T | N/A | 1156 | 576 | 7964 | Biersner Residence |
| 05/25/22 | 05/25/2022 Legacy E. B | N 29° 38' 3.73" W 098° 16' 24.46" | PARTLY CLOUDY 71° NW 25 | 12:39 | N/T | N/T | N/A | 1156 | 576 | 8097 | City Property Line |
| 05/25/22 | 05/25/2022 Legacy E. B | N 29° 38' 3.73" W 098° 16' 24.46" | PARTLY CLOUDY 71° NW 25 | 12:39 | 0.035 | 21.7 | 101 | 1156 | 576 | 5569 | Holly Residence |
| 05/25/22 | 05/25/2022 Legacy E. B | N 29° 38' 3.73" W 098° 16' 24.46" | PARTLY CLOUDY 71° NW 25 | 12:39 | N/T | N/T | N/A | 1156 | 576 | 11075 | Michels Residence |
| 05/25/22 | 05/25/2022 Legacy E. B | N 29° 38' 3.73" W 098° 16' 24.46" | PARTLY CLOUDY 71° NW 25 | 12:39 | 0.043 | 13.9 | 98 | 1156 | 576 | 6930 | Warden Residence |
| 05/26/22 | 05/26/2022 Pond 4 W. A | N 29° 38' 58.85" W 098° 17' 35.56" | SUNNY 86° SW 13 | 13:51 | N/T | N/T | N/A | 1668 | 465 | 8990 | Biersner Residence |
| 05/26/22 | 05/26/2022 Pond 4 W. A | N 29° 38' 58.85" W 098° 17' 35.56" | SUNNY 86° SW 13 | 13:51 | 0.028 | 9.1 | 93 | 1668 | 465 | 4070 | City Property Line |
| 05/26/22 | 05/26/2022 Pond 4 W. A | N 29° 38' 58.85" W 098° 17' 35.56" | SUNNY 86° SW 13 | 13:51 | 0.025 | 6.8 | 93 | 1668 | 465 | 4092 | Michels Residence |
| 05/26/22 | 05/26/2022 Pond 4 W. A | N 29° 38' 58.85" W 098° 17' 35.56" | SUNNY 86° SW 13 | 13:51 | 0.083 | 19.2 | 96 | 1668 | 465 | 3359 | Warden Prop Line |
| 05/26/22 | 05/26/2022 Pond 4 W. A | N 29° 38' 58.85" W 098° 17' 35.56" | SUNNY 86° SW 13 | 13:51 | 0.06 | 10 | 96 | 1668 | 465 | 3652 | Warden Residence |
| 05/27/22 | 05/27/2022 Legacy B Ramp B | N 29° 38' 6.33" W 098° 16' 31.34" | SUNNY 94° SW 11 | 14:33 | N/T | N/T | N/A | 2268 | 568 | 7542 | Biersner Residence |
| 05/27/22 | 05/27/2022 Legacy B Ramp B | N 29° 38' 6.33" W 098° 16' 31.34" | SUNNY 94° SW 11 | 14:33 | N/T | N/T | N/A | 2268 | 568 | 7448 | City Property Line |
| 05/27/22 | 05/27/2022 Legacy B Ramp B | N 29° 38' 6.33" W 098° 16' 31.34" | SUNNY 94° SW 11 | 14:33 | 0.033 | 6.7 | 98 | 2268 | 568 | 4924 | Holly Residence |
| 05/27/22 | 05/27/2022 Legacy B Ramp B | N 29° 38' 6.33" W 098° 16' 31.34" | SUNNY 94° SW 11 | 14:33 | N/T | N/T | N/A | 2268 | 568 | 10415 | Michels Residence |
| 05/27/22 | 05/27/2022 Legacy B Ramp B | N 29° 38' 6.33" W 098° 16' 31.34" | SUNNY 94° SW 11 | 14:33 | 0.04 | 10 | 95 | 2268 | 568 | 6276 | Warden Residence |

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
MAY 2022**

| 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 |
|----------|--------------------------|---------------------------------------|--------------------|-------|-----------------|--------------|-------------|--------------------------|-------------------|---------------------------|----------------------|
| 05/31/22 | 05/31/2022 Base Pit N. A | N 29° 38' 28.84" W 098° 17' 10.40" | SUNNY 92° SE 28 | 11:43 | N/T | N/T | N/A | 1095 | 521 | 6700 | Biersner Residence |
| 05/31/22 | 05/31/2022 Base Pit N. A | N 29° 38' 28.84" W 098° 17' 10.40" | SUNNY 92° SE 28 | 11:43 | 0.023 | 5.5 | 93 | 1095 | 521 | 3900 | City Property Line |
| 05/31/22 | 05/31/2022 Base Pit N. A | N 29° 38' 28.84" W 098° 17' 10.40" | SUNNY 92° SE 28 | 11:43 | 0.093 | 6.4 | 104 | 1095 | 521 | 1980 | Holly Residence |
| 05/31/22 | 05/31/2022 Base Pit N. A | N 29° 38' 28.84" W 098° 17' 10.40" | SUNNY 92° SE 28 | 11:43 | 0.02 | 17.9 | 88 | 1095 | 521 | 6397 | Michels Residence |
| 05/31/22 | 05/31/2022 Base Pit N. A | N 29° 38' 28.84" W 098° 17' 10.40" | SUNNY 92° SE 28 | 11:43 | 0.085 | 7.8 | 98 | 1095 | 521 | 2672 | Warden Residence |

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





Vibra-Tech

VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

July 7, 2022

Mr. Jerry Barucky
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Barucky,

Enclosed is the analysis for the blasting conducted during the month of June 2022 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2022 Blast Data Management Book.

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

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

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

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

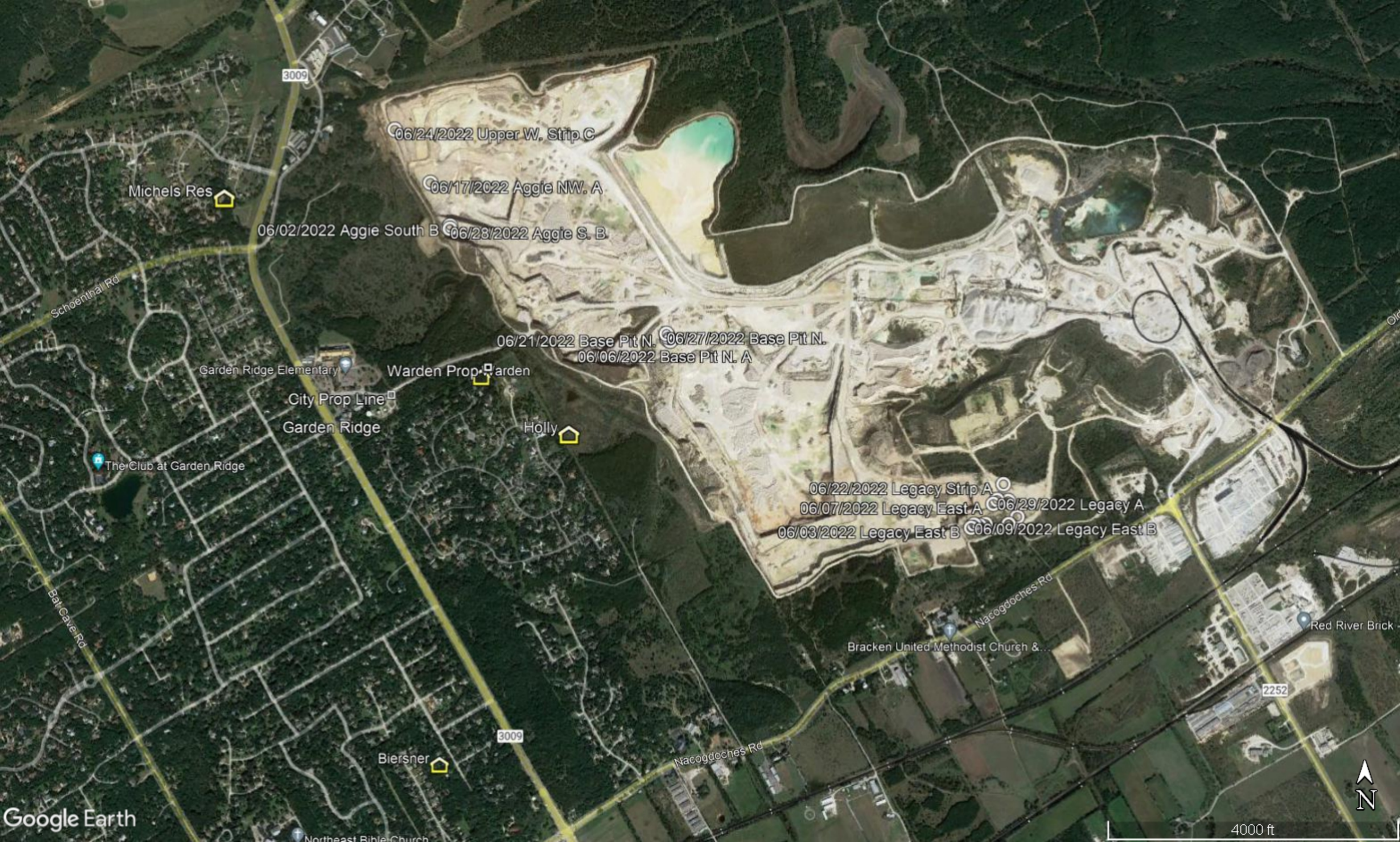
If there are any additional questions, please contact the Quarry Commission, Johnell Holly at (210) 651-7358, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

Respectfully submitted,

VIBRA-TECH, INC.

Nicholas Reitinger
Area Manager

cc: William Saly, Hanson – Servtex



06/24/2022 Upper W. Strip C

06/17/2022 Aggie NW. A

06/02/2022 Aggie South B

06/28/2022 Aggie S. B

06/21/2022 Base Pit N.

06/27/2022 Base Pit N.

06/06/2022 Base Pit N. A

06/22/2022 Legacy Strip A

06/07/2022 Legacy East A

06/29/2022 Legacy A

06/03/2022 Legacy East B

06/09/2022 Legacy East B

Michels Res

Garden Ridge Elementary

Warden Prop

City Prop Line

Garden Ridge

Holly

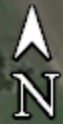
The Club at Garden Ridge

Bracken United Methodist Church & ...

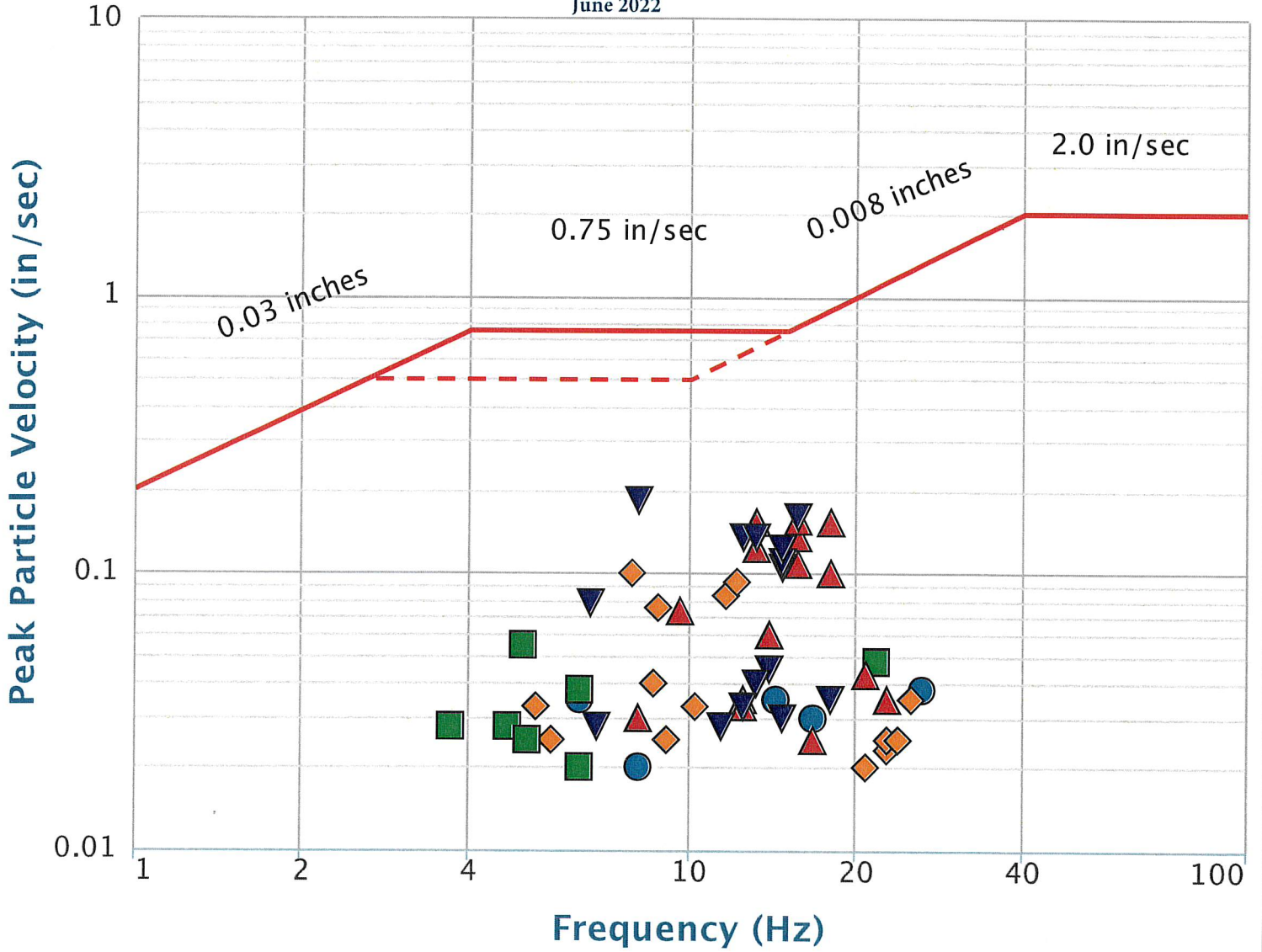
Red River Brick

Biersner

Northeast Bible Church



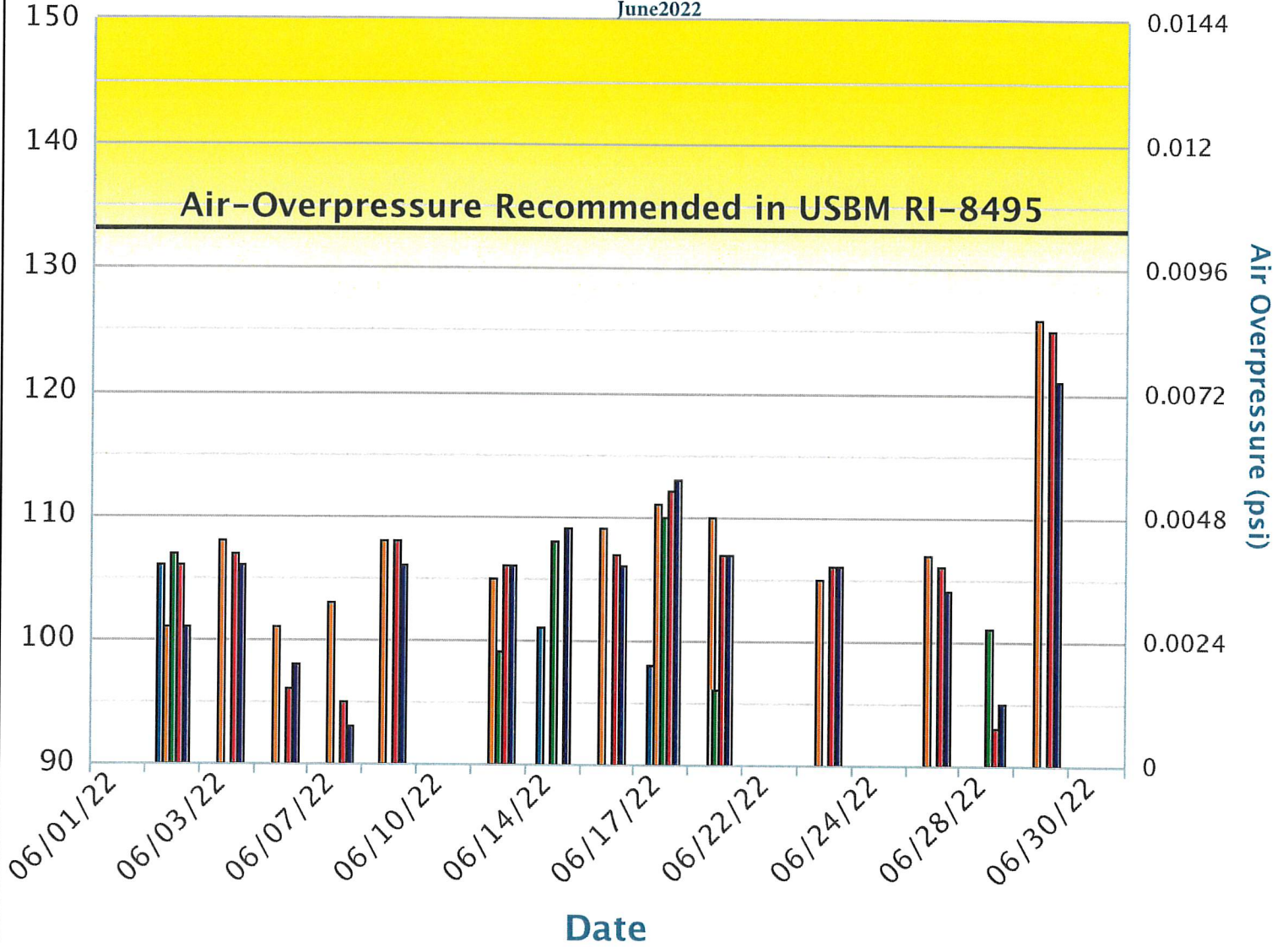
Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
June 2022



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

Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
June 2022

Air-Overpressure Recommended in USBM RI-8495



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|------------------------------|---------------------------------------|-------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/01/22 | 06/01/2022 Stripping South F | N 29° 38' 4.48" W 098° 16' 17.85" | PARTLY CLOUDY 97° SE 19 | 14:09 | N/T | N/T | N/A | 2132 | 112 | 8526 | Biersner Residence |
| 06/01/22 | 06/01/2022 Stripping South F | N 29° 38' 4.48" W 098° 16' 17.85" | PARTLY CLOUDY 97° SE 19 | 14:09 | N/T | N/T | N/A | 2132 | 112 | 8648 | City Property Line |
| 06/01/22 | 06/01/2022 Stripping South F | N 29° 38' 4.48" W 098° 16' 17.85" | PARTLY CLOUDY 97° SE 19 | 14:09 | N/T | N/T | N/A | 2132 | 112 | 6126 | Holly Residence |
| 06/01/22 | 06/01/2022 Stripping South F | N 29° 38' 4.48" W 098° 16' 17.85" | PARTLY CLOUDY 97° SE 19 | 14:09 | N/T | N/T | N/A | 2132 | 112 | 7471 | Warden Residence |
| 06/01/22 | 06/01/2022 Stripping South F | N 29° 38' 4.48" W 098° 16' 17.85" | PARTLY CLOUDY 97° SE 19 | 14:09 | N/T | N/T | N/A | 2132 | 112 | 11583 | Michels Residence |
| 06/02/22 | 06/02/2022 Aggie South B | N 29° 38' 44.83" W 098° 17' 44.82" | PARTLY CLOUDY 86° N13 | 13:28 | N/T | N/T | N/A | 656 | 453 | 7520 | Biersner Residence |
| 06/02/22 | 06/02/2022 Aggie South B | N 29° 38' 44.83" W 098° 17' 44.82" | PARTLY CLOUDY 86° N13 | 13:28 | 0.038 | 6.3 | 107 | 656 | 453 | 2449 | City Property Line |
| 06/02/22 | 06/02/2022 Aggie South B | N 29° 38' 44.83" W 098° 17' 44.82" | PARTLY CLOUDY 86° N13 | 13:28 | 0.03 | 16.7 | 106 | 656 | 453 | 3105 | Michels Residence |
| 06/02/22 | 06/02/2022 Aggie South B | N 29° 38' 44.83" W 098° 17' 44.82" | PARTLY CLOUDY 86° N13 | 13:28 | 0.105 | 14.7 | 101 | 656 | 453 | 1997 | Warden Prop Line |
| 06/02/22 | 06/02/2022 Aggie South B | N 29° 38' 44.83" W 098° 17' 44.82" | PARTLY CLOUDY 86° N13 | 13:28 | 0.1 | 17.9 | 106 | 656 | 453 | 2251 | Warden Residence |
| 06/03/22 | 06/03/2022 Legacy East B | N 29° 38' 3.98" W 098° 16' 23.69" | SUNNY 93° NE 12 | 12:35 | N/T | N/T | N/A | 716 | 597 | 8036 | Biersner Residence |
| 06/03/22 | 06/03/2022 Legacy East B | N 29° 38' 3.98" W 098° 16' 23.69" | SUNNY 93° NE 12 | 12:35 | N/T | N/T | N/A | 716 | 597 | 11127 | Michels Residence |
| 06/03/22 | 06/03/2022 Legacy East B | N 29° 38' 3.98" W 098° 16' 23.69" | SUNNY 93° NE 12 | 12:35 | N/T | N/T | N/A | 716 | 597 | 8157 | City Property Line |
| 06/03/22 | 06/03/2022 Legacy East B | N 29° 38' 3.98" W 098° 16' 23.69" | SUNNY 93° NE 12 | 12:35 | 0.035 | 25 | 108 | 716 | 597 | 5630 | Holly Residence |
| 06/03/22 | 06/03/2022 Legacy East B | N 29° 38' 3.98" W 098° 16' 23.69" | SUNNY 93° NE 12 | 12:35 | 0.035 | 12.5 | 107 | 716 | 597 | 6989 | Warden Residence |

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|--------------------------|---------------------------------------|--------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/06/22 | 06/06/2022 Base Pit N. A | N 29° 38' 29.28" W 098° 17' 10.57" | SUNNY 98° S 25 | 13:35 | N/T | N/T | N/A | 987 | 494 | 6733 | Biersner Residence |
| 06/06/22 | 06/06/2022 Base Pit N. A | N 29° 38' 29.28" W 098° 17' 10.57" | SUNNY 98° S 25 | 13:35 | N/T | N/T | N/A | 987 | 494 | 6370 | Michels Residence |
| 06/06/22 | 06/06/2022 Base Pit N. A | N 29° 38' 29.28" W 098° 17' 10.57" | SUNNY 98° S 25 | 13:35 | 0.028 | 3.7 | 90 | 987 | 494 | 3894 | City Property Line |
| 06/06/22 | 06/06/2022 Base Pit N. A | N 29° 38' 29.28" W 098° 17' 10.57" | SUNNY 98° S 25 | 13:35 | 0.108 | 15.6 | 96 | 987 | 494 | 2668 | Warden Residence |
| 06/06/22 | 06/06/2022 Base Pit N. A | N 29° 38' 29.28" W 098° 17' 10.57" | SUNNY 98° S 25 | 13:35 | 0.083 | 11.6 | 101 | 987 | 494 | 2002 | Holly Residence |
| 06/07/22 | 06/07/2022 Legacy East A | N 29° 38' 7.21" W 098° 16' 20.24" | SUNNY 104° S 24 | 13:12 | N/T | N/T | N/A | 1080 | 857 | 8451 | Biersner Residence |
| 06/07/22 | 06/07/2022 Legacy East A | N 29° 38' 7.21" W 098° 16' 20.24" | SUNNY 104° S 24 | 13:12 | N/T | N/T | N/A | 1080 | 857 | 11286 | Michels Residence |
| 06/07/22 | 06/07/2022 Legacy East A | N 29° 38' 7.21" W 098° 16' 20.24" | SUNNY 104° S 24 | 13:12 | N/T | N/T | N/A | 1080 | 857 | 8389 | City Property Line |
| 06/07/22 | 06/07/2022 Legacy East A | N 29° 38' 7.21" W 098° 16' 20.24" | SUNNY 104° S 24 | 13:12 | 0.023 | 22.7 | 103 | 1080 | 857 | 5875 | Holly Residence |
| 06/07/22 | 06/07/2022 Legacy East A | N 29° 38' 7.21" W 098° 16' 20.24" | SUNNY 104° S 24 | 13:12 | 0.033 | 12.5 | 95 | 1080 | 857 | 7201 | Warden Residence |
| 06/09/22 | 06/09/2022 Legacy East B | N 29° 38' 4.40" W 098° 16' 23.22" | SUNNY 96° SE 14 | 14:03 | N/T | N/T | N/A | 1252 | 614 | 11163 | Michels Residence |
| 06/09/22 | 06/09/2022 Legacy East B | N 29° 38' 4.40" W 098° 16' 23.22" | SUNNY 96° SE 14 | 14:03 | N/T | N/T | N/A | 1252 | 614 | 8196 | City Property Line |
| 06/09/22 | 06/09/2022 Legacy East B | N 29° 38' 4.40" W 098° 16' 23.22" | SUNNY 96° SE 14 | 14:03 | N/T | N/T | N/A | 1252 | 614 | 8076 | Biersner Residence |
| 06/09/22 | 06/09/2022 Legacy East B | N 29° 38' 4.40" W 098° 16' 23.22" | SUNNY 96° SE 14 | 14:03 | 0.04 | 8.6 | 108 | 1252 | 614 | 5669 | Holly Residence |
| 06/09/22 | 06/09/2022 Legacy East B | N 29° 38' 4.40" W 098° 16' 23.22" | SUNNY 96° SE 14 | 14:03 | 0.06 | 13.9 | 108 | 1252 | 614 | 7027 | Warden Residence |

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|---------------------------|---------------------------------------|---------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/10/22 | 06/10/2022 Legacy Strip A | N 29° 38' 7.61" W 098° 16' 17.93" | SUNNY 99° SW 10 | 13:49 | N/T | N/T | N/A | 1776 | 112 | 8652 | Biersner Residence |
| 06/10/22 | 06/10/2022 Legacy Strip A | N 29° 38' 7.61" W 098° 16' 17.93" | SUNNY 99° SW 10 | 13:49 | N/T | N/T | N/A | 1776 | 112 | 7391 | Warden Residence |
| 06/10/22 | 06/10/2022 Legacy Strip A | N 29° 38' 7.61" W 098° 16' 17.93" | SUNNY 99° SW 10 | 13:49 | N/T | N/T | N/A | 1776 | 112 | 8582 | City Property Line |
| 06/10/22 | 06/10/2022 Legacy Strip A | N 29° 38' 7.61" W 098° 16' 17.93" | SUNNY 99° SW 10 | 13:49 | N/T | N/T | N/A | 1776 | 112 | 11462 | Michels Residence |
| 06/10/22 | 06/10/2022 Legacy Strip A | N 29° 38' 7.61" W 098° 16' 17.93" | SUNNY 99° SW 10 | 13:49 | N/T | N/T | N/A | 1776 | 112 | 6071 | Holly Residence |
| 06/13/22 | 06/13/2022 Base Pit N. A | N 29° 38' 29.54" W 098° 17' 10.99" | SUNNY 100° SE 35 | 12:38 | 0.123 | 13.2 | 106 | 958 | 453 | 2638 | Warden Residence |
| 06/13/22 | 06/13/2022 Base Pit N. A | N 29° 38' 29.54" W 098° 17' 10.99" | SUNNY 100° SE 35 | 12:38 | N/T | N/T | N/A | 958 | 453 | 6739 | Biersner Residence |
| 06/13/22 | 06/13/2022 Base Pit N. A | N 29° 38' 29.54" W 098° 17' 10.99" | SUNNY 100° SE 35 | 12:38 | N/T | N/T | N/A | 958 | 453 | 6327 | Michels Residence |
| 06/13/22 | 06/13/2022 Base Pit N. A | N 29° 38' 29.54" W 098° 17' 10.99" | SUNNY 100° SE 35 | 12:38 | 0.075 | 8.8 | 105 | 958 | 453 | 1995 | Holly Residence |
| 06/13/22 | 06/13/2022 Base Pit N. A | N 29° 38' 29.54" W 098° 17' 10.99" | SUNNY 100° SE 35 | 12:38 | 0.02 | 6.3 | 99 | 958 | 453 | 3862 | City Property Line |
| 06/14/22 | 06/14/2022 Aggie South A | N 29° 38' 44.50" W 098° 17' 45.10" | SUNNY 95° SE 36 | 15:08 | N/T | N/T | N/A | 1014 | 701 | 7486 | Biersner Residence |
| 06/14/22 | 06/14/2022 Aggie South A | N 29° 38' 44.50" W 098° 17' 45.10" | SUNNY 95° SE 36 | 15:08 | 0.055 | 5 | 108 | 1014 | 701 | 2410 | City Property Line |
| 06/14/22 | 06/14/2022 Aggie South A | N 29° 38' 44.50" W 098° 17' 45.10" | SUNNY 95° SE 36 | 15:08 | 0.035 | 14.3 | 101 | 1014 | 701 | 3083 | Michels Residence |
| 06/14/22 | 06/14/2022 Aggie South A | N 29° 38' 44.50" W 098° 17' 45.10" | SUNNY 95° SE 36 | 15:08 | 0.183 | 8.1 | 109 | 1014 | 701 | 1972 | Warden Prop Line |
| 06/14/22 | 06/14/2022 Aggie South A | N 29° 38' 44.50" W 098° 17' 45.10" | SUNNY 95° SE 36 | 15:08 | 0.153 | 13.2 | 90 | 1014 | 701 | 2223 | Warden Residence |

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NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|------------------------|---------------------------------------|-----------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/16/22 | 06/16/2022 Legacy E. B | N 29° 38' 4.25" W 098° 16' 22.34" | SUNNY 96° SE 21 | 13:03 | N/T | N/T | N/A | 1220 | 555 | 8156 | Biersner Residence |
| 06/16/22 | 06/16/2022 Legacy E. B | N 29° 38' 4.25" W 098° 16' 22.34" | SUNNY 96° SE 21 | 13:03 | N/T | N/T | N/A | 1220 | 555 | 11226 | Michels Residence |
| 06/16/22 | 06/16/2022 Legacy E. B | N 29° 38' 4.25" W 098° 16' 22.34" | SUNNY 96° SE 21 | 13:03 | N/T | N/T | N/A | 1220 | 555 | 8267 | City Property Line |
| 06/16/22 | 06/16/2022 Legacy E. B | N 29° 38' 4.25" W 098° 16' 22.34" | SUNNY 96° SE 21 | 13:03 | 0.035 | 22.7 | 107 | 1220 | 555 | 7095 | Warden Residence |
| 06/16/22 | 06/16/2022 Legacy E. B | N 29° 38' 4.25" W 098° 16' 22.34" | SUNNY 96° SE 21 | 13:03 | 0.025 | 22.7 | 109 | 1220 | 555 | 5741 | Holly Residence |
| 06/17/22 | 06/17/2022 Aggie NW. A | N 29° 38' 50.62" W 098° 17' 47.90" | SUNNY 94° SE 15 | 12:21 | N/T | N/T | N/A | 824 | 1441 | 8106 | Biersner Residence |
| 06/17/22 | 06/17/2022 Aggie NW. A | N 29° 38' 50.62" W 098° 17' 47.90" | SUNNY 94° SE 15 | 12:21 | 0.028 | 4.7 | 110 | 824 | 1441 | 2948 | City Property Line |
| 06/17/22 | 06/17/2022 Aggie NW. A | N 29° 38' 50.62" W 098° 17' 47.90" | SUNNY 94° SE 15 | 12:21 | 0.038 | 26.3 | 98 | 824 | 1441 | 2849 | Michels Residence |
| 06/17/22 | 06/17/2022 Aggie NW. A | N 29° 38' 50.62" W 098° 17' 47.90" | SUNNY 94° SE 15 | 12:21 | 0.078 | 6.6 | 113 | 824 | 1441 | 2637 | Warden Prop Line |
| 06/17/22 | 06/17/2022 Aggie NW. A | N 29° 38' 50.62" W 098° 17' 47.90" | SUNNY 94° SE 15 | 12:21 | 0.073 | 9.6 | 112 | 824 | 1441 | 2883 | Warden Residence |
| 06/21/22 | 06/21/2022 Base Pit N. | N 29° 38' 29.85" W 098° 17' 10.96" | PARTLY CLOUDY 93° S 5 | 13:18 | N/T | N/T | N/A | 958 | 479 | 6768 | Biersner Residence |
| 06/21/22 | 06/21/2022 Base Pit N. | N 29° 38' 29.85" W 098° 17' 10.96" | PARTLY CLOUDY 93° S 5 | 13:18 | 0.025 | 5.1 | 96 | 958 | 479 | 3871 | City Property Line |
| 06/21/22 | 06/21/2022 Base Pit N. | N 29° 38' 29.85" W 098° 17' 10.96" | PARTLY CLOUDY 93° S 5 | 13:18 | 0.02 | 8.1 | 90 | 958 | 479 | 6321 | Michels Residence |
| 06/21/22 | 06/21/2022 Base Pit N. | N 29° 38' 29.85" W 098° 17' 10.96" | PARTLY CLOUDY 93° S 5 | 13:18 | 0.093 | 12.2 | 110 | 958 | 479 | 2020 | Holly Residence |
| 06/21/22 | 06/21/2022 Base Pit N. | N 29° 38' 29.85" W 098° 17' 10.96" | PARTLY CLOUDY 93° S 5 | 13:18 | 0.135 | 15.6 | 107 | 958 | 479 | 2649 | Warden Residence |

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|-----------------------------|---------------------------------------|-------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/22/22 | 06/22/2022 Legacy Strip A | N 29° 38' 9.88" W 098° 16' 18.65" | CLEAR 98° S 8 | 14:45 | N/T | N/T | N/A | 1928 | 79 | 11325 | Michels Residence |
| 06/22/22 | 06/22/2022 Legacy Strip A | N 29° 38' 9.88" W 098° 16' 18.65" | CLEAR 98° S 8 | 14:45 | N/T | N/T | N/A | 1928 | 79 | 5984 | Holly Residence |
| 06/22/22 | 06/22/2022 Legacy Strip A | N 29° 38' 9.88" W 098° 16' 18.65" | CLEAR 98° S 8 | 14:45 | N/T | N/T | N/A | 1928 | 79 | 8483 | City Property Line |
| 06/22/22 | 06/22/2022 Legacy Strip A | N 29° 38' 9.88" W 098° 16' 18.65" | CLEAR 98° S 8 | 14:45 | N/T | N/T | N/A | 1928 | 79 | 7284 | Warden Residence |
| 06/22/22 | 06/22/2022 Legacy Strip A | N 29° 38' 9.88" W 098° 16' 18.65" | CLEAR 98° S 8 | 14:45 | N/T | N/T | N/A | 1928 | 79 | 8697 | Biersner Residence |
| 06/23/22 | 06/23/2022 Legacy B | N 29° 38' 4.50" W 098° 16' 21.47" | CLEAR 96° SE 6 | 14:21 | N/T | N/T | N/A | 1252 | 601 | 8236 | Biersner Residence |
| 06/23/22 | 06/23/2022 Legacy B | N 29° 38' 4.50" W 098° 16' 21.47" | CLEAR 96° SE 6 | 14:21 | N/T | N/T | N/A | 1252 | 601 | 11287 | Michels Residence |
| 06/23/22 | 06/23/2022 Legacy B | N 29° 38' 4.50" W 098° 16' 21.47" | CLEAR 96° SE 6 | 14:21 | N/T | N/T | N/A | 1252 | 601 | 8336 | City Property Line |
| 06/23/22 | 06/23/2022 Legacy B | N 29° 38' 4.50" W 098° 16' 21.47" | CLEAR 96° SE 6 | 14:21 | 0.02 | 20.8 | 105 | 1252 | 601 | 5812 | Holly Residence |
| 06/23/22 | 06/23/2022 Legacy B | N 29° 38' 4.50" W 098° 16' 21.47" | CLEAR 96° SE 6 | 14:21 | 0.043 | 20.8 | 106 | 1252 | 601 | 7163 | Warden Residence |
| 06/24/22 | 06/24/2022 Upper W. Strip C | N 29° 38' 57.80" W 098° 17' 53.44" | CLEAR 98° S 9 | 14:03 | 0.028 | 6.8 | 87 | 3704 | 61 | 3486 | Warden Prop Line |
| 06/24/22 | 06/24/2022 Upper W. Strip C | N 29° 38' 57.80" W 098° 17' 53.44" | CLEAR 98° S 9 | 14:03 | 0.03 | 8.1 | 87 | 3704 | 61 | 3718 | Warden Residence |
| 06/24/22 | 06/24/2022 Upper W. Strip C | N 29° 38' 57.80" W 098° 17' 53.44" | CLEAR 98° S 9 | 14:03 | N/T | N/T | N/A | 3704 | 61 | 2581 | Michels Residence |
| 06/24/22 | 06/24/2022 Upper W. Strip C | N 29° 38' 57.80" W 098° 17' 53.44" | CLEAR 98° S 9 | 14:03 | N/T | N/T | N/A | 3704 | 61 | 3626 | City Property Line |
| 06/24/22 | 06/24/2022 Upper W. Strip C | N 29° 38' 57.80" W 098° 17' 53.44" | CLEAR 98° S 9 | 14:03 | N/T | N/T | N/A | 3704 | 61 | 8853 | Biersner Residence |

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|------------------------|---------------------------------------|------------------------|-------|--------------|-----------|----------|--------------------|----------------|---------------------|----------------------|
| 06/27/22 | 06/27/2022 Base Pit N. | N 29° 38' 30.21" W 098° 17' 11.13" | PARTLY CLOUDY 97° NE 3 | 13:14 | N/T | N/T | N/A | 958 | 586 | 3864 | City Property Line |
| 06/27/22 | 06/27/2022 Base Pit N. | N 29° 38' 30.21" W 098° 17' 11.13" | PARTLY CLOUDY 97° NE 3 | 13:14 | N/T | N/T | N/A | 958 | 586 | 6793 | Biersner Residence |
| 06/27/22 | 06/27/2022 Base Pit N. | N 29° 38' 30.21" W 098° 17' 11.13" | PARTLY CLOUDY 97° NE 3 | 13:14 | 0.1 | 7.9 | 107 | 958 | 586 | 2038 | Holly Residence |
| 06/27/22 | 06/27/2022 Base Pit N. | N 29° 38' 30.21" W 098° 17' 11.13" | PARTLY CLOUDY 97° NE 3 | 13:14 | 0.153 | 17.9 | 106 | 958 | 586 | 2644 | Warden Residence |
| 06/27/22 | 06/27/2022 Base Pit N. | N 29° 38' 30.21" W 098° 17' 11.13" | PARTLY CLOUDY 97° NE 3 | 13:14 | 0.025 | 0.8 | 83 | 958 | 586 | 6296 | Michels Residence |
| 06/28/22 | 06/28/2022 Aggie S. B | N 29° 38' 44.41" W 098° 17' 44.85" | CLOUDY 89° NE 6 | 15:22 | N/T | N/T | N/A | 848 | 1038 | 7477 | Biersner Residence |
| 06/28/22 | 06/28/2022 Aggie S. B | N 29° 38' 44.41" W 098° 17' 44.85" | CLOUDY 89° NE 6 | 15:22 | 0.035 | 6.3 | 90 | 848 | 1038 | 3105 | Michels Residence |
| 06/28/22 | 06/28/2022 Aggie S. B | N 29° 38' 44.41" W 098° 17' 44.85" | CLOUDY 89° NE 6 | 15:22 | 0.16 | 15.6 | 95 | 848 | 1038 | 1957 | Warden Prop Line |
| 06/28/22 | 06/28/2022 Aggie S. B | N 29° 38' 44.41" W 098° 17' 44.85" | CLOUDY 89° NE 6 | 15:22 | 0.155 | 15.6 | 93 | 848 | 1038 | 2210 | Warden Residence |
| 06/28/22 | 06/28/2022 Aggie S. B | N 29° 38' 44.41" W 098° 17' 44.85" | CLOUDY 89° NE 6 | 15:22 | 0.048 | 21.7 | 101 | 848 | 1038 | 2408 | City Property Line |
| 06/29/22 | 06/29/2022 Legacy A | N 29° 38' 7.75" W 098° 16' 19.66" | PARTLY CLOUDY 93° E 7 | 14:19 | N/T | N/T | N/A | 1040 | 510 | 11315 | Michels Residence |
| 06/29/22 | 06/29/2022 Legacy A | N 29° 38' 7.75" W 098° 16' 19.66" | PARTLY CLOUDY 93° E 7 | 14:19 | N/T | N/T | N/A | 1040 | 510 | 8429 | City Property Line |
| 06/29/22 | 06/29/2022 Legacy A | N 29° 38' 7.75" W 098° 16' 19.66" | PARTLY CLOUDY 93° E 7 | 14:19 | N/T | N/T | N/A | 1040 | 510 | 8521 | Biersner Residence |
| 06/29/22 | 06/29/2022 Legacy A | N 29° 38' 7.75" W 098° 16' 19.66" | PARTLY CLOUDY 93° E 7 | 14:19 | 0.025 | 16.7 | 125 | 1040 | 510 | 7239 | Warden Residence |
| 06/29/22 | 06/29/2022 Legacy A | N 29° 38' 7.75" W 098° 16' 19.66" | PARTLY CLOUDY 93° E 7 | 14:19 | 0.025 | 23.8 | 126 | 1040 | 510 | 5918 | Holly Residence |

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JUNE 2022**

| 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 |
|----------|---------------------------|--------------------------------------|-----------------------------|-------|-----------------|--------------|-------------|--------------------------|-------------------|---------------------------|----------------------|
| 06/30/22 | 06/30/2022 Legacy Strip B | N 29° 38' 5.46" W 098° 16' 16.51" | PARTLY CLOUDY 94° E 9 | 13:46 | N/T | N/T | N/A | 2060 | 72 | 11657 | Michels Residence |
| 06/30/22 | 06/30/2022 Legacy Strip B | N 29° 38' 5.46" W 098° 16' 16.51" | PARTLY CLOUDY 94° E 9 | 13:46 | N/T | N/T | N/A | 2060 | 72 | 6226 | Holly Residence |
| 06/30/22 | 06/30/2022 Legacy Strip B | N 29° 38' 5.46" W 098° 16' 16.51" | PARTLY CLOUDY 94° E 9 | 13:46 | N/T | N/T | N/A | 2060 | 72 | 8744 | City Property Line |
| 06/30/22 | 06/30/2022 Legacy Strip B | N 29° 38' 5.46" W 098° 16' 16.51" | PARTLY CLOUDY 94° E 9 | 13:46 | N/T | N/T | N/A | 2060 | 72 | 7561 | Warden Residence |
| 06/30/22 | 06/30/2022 Legacy Strip B | N 29° 38' 5.46" W 098° 16' 16.51" | PARTLY CLOUDY 94° E 9 | 13:46 | N/T | N/T | N/A | 2060 | 72 | 8674 | Biersner Residence |

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

Print

Citizen Quarry Blast Impact Report - Submission #3402

Date Submitted: 5/17/2022

First Name

Armando

Last Name

Diaz

Report Date

5/17/2022

Phone Number:

2107210112

E-Mail Address

[REDACTED]

Address1

21010 Gunther Grv

Blast Date/Time:

05/17/2022 / 12:44

Please describe the event.

Heard walls shaking. Sound of walls shaking was moderate. Felt no blast move through foundation

How did this blast compare to other blasts?

Felt slightly stronger than the last one, but to a lesser extent than the strongest that I have felt

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?

Working in kitchen, 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 Representative 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.

| # | Month | Blast Date | Blast time | Date Received | Name | Address | Phone # | Rating | # stories | sq footage | Request contact | Misc | Date sent to VibraTech |
|---------|-------|------------|------------|---------------|--------------|---------------------|--------------|--------|-----------|------------|-----------------|-------------------------------------------------------------------------------------------------|------------------------|
| 2022-5Q | May | 5/17/2022 | 12:44pm | 5/17/2022 | Armando Diaz | 21010 Gunther Grove | 210-721-0112 | 3 | 1 | 2800 | No | Heard walls shaking. Sound of walls shaing was moderate. Felt no blast move through foundation. | 7/8/2022 |

Future Agenda Items

Quarry Commission

September 12, 2022

Regular Meeting

- 12** days before Meeting (08/31/22) Commission and Staff items are due
- 10** days before Meeting (09/02/22) City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
- 7** days before Meeting (09/05/22) 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 (09/08/22) Post Agenda Packet to CivicClerk
- 3** days before Meeting (09/09/22) (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 | |

Approvals

1. Minutes 5/9/22
2. Minutes 7/11/22

Public Hearings/Recommendations

Discussion/Reports

1. Monthly Blasting Analysis Data and Monitoring of Blasts
2. Citizen Blast Impact Reports
3. City Council Update
4. Future Agenda Items
 - a. Commissioners' input

Education/Training Session

Executive Session

PENDING FUTURE AGENDA ITEMS