



City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266-2600

(210) 651-6632

Fax (210) 651-9638

AGENDA JOINT SPECIAL MEETING CITY COUNCIL AND QUARRY COMMISSION Monday, September 12, 2016 at 6:00 P.M.

The Garden Ridge City Council and Quarry Commission will meet in joint special meeting on Monday, September 12, 2016 at 6:00 p.m. in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on or before September 9, 2016 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made 48 hours prior to this meeting.

1. Call to Order :
2. Roll Call:
3. Citizens Comments: Please use signup sheet

Rules for Citizen's Participation:

The Quarry Commission welcomes citizen participation and comments at all of their Commission Meetings. As a courtesy to your fellow citizens and out of respect to our elected officials, we request that if you speak, that you please follow these guidelines.

- a. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
- b. Show the Commission the same respect and courtesy that you would like to be shown.
- c. Limit remarks to three (3) minutes per citizen during Item 3 and to three (3) minutes per citizen during Item 5.
- d. Citizens' comments will be limited to one (1) hour in Item 4 and thirty (30) minutes in Item 6.
- e. Citizen comments may be deferred to a specific Business Item set forth in Section 4, below, if such comments pertain to such Business Item

*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.*

4. Executive Session
The City Council and Quarry Commission will recess its open meeting and reconvene in Executive Session:
 - a. Pursuant to Texas Government Code 552.071, to consult with City Attorney regarding legal issues related to assessment of fees on partial exemption blasting permits.
5. Reconvene into Regular Session upon conclusion of the Executive
6. Business Item
 - a. Request from Orica USA, Inc. for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry and to include setting annual fee for the Partial Exemption Permit
 - i. Quarry Commission discussion and consideration of recommendation to City Council
 - ii. City Council discussion and consideration of Quarry Commission's recommendations.
7. Citizen's Participation: - 3 minute limit per citizen.
See "Rules for Citizen's Participation" under Item 3.
8. Adjournment:

REGULAR SESSION
GARDEN RIDGE QUARRY COMMISSION MEETING
Monday, September 12, 2016

Immediately following the Joint City Council and Quarry Commission Meeting

The Garden Ridge City Quarry Commission will meet in regular session on Monday, September 12, 2016 immediately following the Joint City Council and Quarry Commission Meeting in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on or before September 9, 2016 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made 48 hours prior to this meeting.

1. Call to Order :
2. Roll Call:
3. Approval of Minutes:
 - a. August 8, 2016 Regular Quarry Commission Meeting
4. Citizens Comments: Please use signup sheet

Rules for Citizen's Participation:

The Quarry Commission welcomes citizen participation and comments at all of their Commission Meetings. As a courtesy to your fellow citizens and out of respect to our elected officials, we request that if you speak, that you please follow these guidelines.

- a. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
- b. Show the Commission the same respect and courtesy that you would like to be shown.
- c. Limit remarks to three (3) minutes per citizen during Item 4 and to three (3) minutes per citizen during Item 6.
- d. Citizens' comments will be limited to one (1) hour in Item 4 and thirty (30) minutes in Item 6.
- e. Citizen comments may be deferred to a specific Business Item set forth in Section 5, below, if such comments pertain to such Business Item

*NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting. However, any discussion of the subject **must be limited** to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy. TEX. GOV'T CODE § 551.042.*

5. Business Items:

The City Quarry Commission may discuss, consider, and /or take possible action for possible recommendation to the City Council for the following items:

- a. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratex. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.
- b. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.
- c. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratex and notification to residents of monitor placements.
- d. Vacant Quarry Commission position with term of office expiring September 30, 2018.
 - i. Interview possible candidates
 - ii. Consideration of recommendation to the City Council
- e. Discuss Grapevine article topics and future author/s of articles.
- f. Discuss future training sessions.

6. Citizen's Participation: - 3 minute limit per citizen.

See "Rules for Citizen's Participation" under Item 4.

7. Training Session – 30 minute limit
 - a. Blast Regression Analysis

8. Adjournment:

AGENDA NOTICES:

Decorum Required:

Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

Action by Commission Authorized:

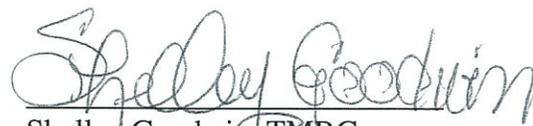
The City Quarry Commission may vote and/or act upon any item within this Agenda. The Commission reserves the right to retire into executive session concerning any of the items listed on this Agenda, pursuant to and in accordance with Texas Government Code Section 551.071, to seek the advice of its attorney about pending or contemplated litigation, settlement offer or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas conflict with the Open Meetings Act and may invoke this right where the City Attorney, the Mayor or a majority of the Governing Body deems an executive session is necessary to allow privileged consultation between the City Attorney and the governing body, if considered necessary and legally justified under the Open Meetings Act. The City Attorney may appear in person, or appear in executive session by conference call in accordance with applicable state law.

Executive Sessions Authorized:

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

Attendance By Other Elected or Appointed Officials:

It is anticipated that members of other city board, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action is specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.


Shelley Goodwin, TMRC
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 10:00 am on September 9, 2016 on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Shelley Goodwin, TMRC
City Secretary



City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78256
(210) 651-6831
Fax: (210) 651-9638

PERMIT NO. _____

APPLICATION FOR BLASTING PERMIT

Application is hereby made to the City of Garden Ridge for a permit to conduct blasting operations in accordance with plans and specifications submitted herewith, or previously submitted, and in full conformity with provisions of all ordinances, regulations and laws pertaining to blasting operations whether specified herein or not. The location and other required data for the operation are as follows:

Street Number 21503 FM 2252 New Braunfels, TX Property Owner Hanson Aggregates North America

Purpose of Blasting Extraction of limestone material for quarry operation

Proposed Date(s) of Blasting OCTOBER 1, 2016 TO SEPTEMBER 30, 2017

Contractor ORICA USA Address 33101 E Quincy Ave, Watkins, CO 80157

Blaster Adam Nichols Address 5844 FM 482, New Braunfels, TX 78132

Blaster's Qualifications City of San Antonio Fire Protection Division "Blaster - Quarry/Handler" Permit # 922829

Certificate of Insurance "See also application" Aon Risk Insurance Services Waste Inc Policy # 01C379285306

Manner of Use and Type of Explosive: Commercial explosives to be used in limestone quarry application. ConTonic Electronic Detonators, Pentax Cast Boosters, Fortel Packaged

Blasting Agent for wet hole application and Bulk ANFO for dry hole application

In making application for this permit, my signature hereto certifies that I am aware of Garden Ridge City Ordinance 34 and agree to the provisions therein, will provide a certificate of insurance and that all personnel charged with the safe operation of this blasting proposal will comply with the provisions of the ordinance and other regulations pertinent to the safety of blasting operations.

Signature and Title of Applicant: By [Signature] Byron Lossett Operations Superintendent.

Permission is hereby granted to _____ to conduct blasting operations as stated above on the site indicated and on the specified date(s) indicated, in compliance with the ordinances and laws of the City of Garden Ridge, Comal County, Texas, and all applicable OSHA Regulations.

Signed and approved this _____ day of _____ 20____

Signature of City Administrator/City Secretary

Blasting Permit Fee of \$ _____ received in cash _____ or check _____



Orica USA Inc.
33101 East Quincy Avenue
Watkins, Colorado 80137
Tel: 303-268-5220
Fax: 303-458-3610
byron.lossett@orica.com

August 8, 2016

City of Garden Ridge, Texas

Attn: City Administrator
9400 Municipal Parkway
Garden Ridge, Texas 78266

**RE: ORICA USA INC.'S REQUEST FOR PARTIAL EXEMPTION PERMIT TO CONDUCT
BLASTING PURSUANT TO ORDINANCE 34-052012 OF CITY OF GARDEN RIDGE, TEXAS**

Dear Nancy Cain:

Orica USA Inc. submits this letter for consideration of a Partial Exemption Permit to conduct blasting as defined in City of Garden Ridge, Texas Ordinance 34-052012.

As required by Ordinance 34-052012, the letter includes:

1) The name of the designee.

Orica USA Inc.

2) The name of the designee's representative for purposes of the application (if the designee is not a natural person).

Byron Lossett (Operations Superintendent) Orica USA, West Region

3) Copies of any state or federal licenses and permits authorizing the Requestor to possess and use explosives.

Refer to Appendix 1.0

- Orica USA Employee Authorized Signature List
- ATF Notice of Clearance For individuals transporting, shipping, receiving, or possessing explosives materials
- Orica USA (18 U.S.C. Chapter 40, Explosives License / Permit)
- Blaster's Permits

4) Complete contact information, including name, address, phone number, facsimile number and e-mail address for the City's use in processing the application. The contact information provided shall be used for all communications in connection with the processing of the application and the operation.

Contact during the application process:

Name: Byron Lossett
Address: 4004 Granada Drive
Georgetown, TX 78628
Phone #: 512-966-8395 (Cell)
Email: byron.lossett@orica.com

Contact for blasts fired at the Lehigh Hanson — Servtex Quarry

Name: Byron Lossett
Address: 4004 Granada Drive
Georgetown, TX 78628
Phone #: 512-966-8395 (Cell)
Email: byron.lossett@orica.com

5) A full description of the designee's legal and factual relationship to the property(ies) upon which the Blasting shall be conducted.

Legal Name: Orica USA Inc.

Relationship: Explosives' Supplier to the Lehigh Hanson — Servtex Quarry

6) A detailed description of the operation to be conducted.

Blast Plan: Lehigh Hanson – Servtex Quarry

Benches

- Prior to blast, all benches will be inspected for potential problem areas.
- Potential problem areas seen during face inspection will be profiled.
- Profiles will be dated and saved to digital media in case information is required later.
- The face height shall be designed as to allow for safe blasting procedures, to minimize air blast and ground vibration.
- Hole depths will be set at three feet below the desired floor elevation.

- Any changes in bench height or actions taken to correct the bench height will be clearly noted in the blast report.
- Drill logs will be provided for all bore holes. Hole depths will be verified and checked against the drill logs. Drill logs will be attached to their respective blast reports. Any deviation in hole depth 5% or more as well as potential problems noted in the drill logs will be brought to the quarry superintendent's attention for discussion and resolution.
- If conditions on the bench pose a safety hazard the mine superintendent will be notified immediately so conditions and solutions can be discussed.

Timing and Patterns

- Blasts patterns will be laid out in such a way that will allow for safe loading and initiation of all loaded bore holes.
- Multiple row blasts will be laid out on a staggered pattern.
- Patterns will be designed and laid out by Orica personnel. If cracks from fault lines prohibit pattern layout or might create an unsafe drilling or loading condition, it will be immediately brought to the mine superintendent's attention so conditions and solutions can be discussed.
- Burden and spacing will be verified prior to blasting. If burden or spacing differ from blast plan by two feet or more it should be reported to the quarry immediately and solutions discussed at that time. If conditions on the bench pose a safety hazard the mine superintendent will be notified immediately so conditions and solutions can be discussed.
- Any deviation from the blast plan shall be discussed with and approved by the quarry superintendent, and clearly noted in the comments section of the blast report. All factors shall be considered and discussed prior to deviating from the blast plan.

Administrative

- Daily explosive inventories and the total explosive use per day will be turned in to the quarry location manager. The quarry location manager will co-ordinate with Hanson office personnel for purchase orders and invoices. Copies of the full blast report packet will be provided to the quarry administrative office and the Orica location manager within 24 hours of the blast.

Type of Explosives (Bulk Explosives and Initiation Systems)

- Bulk Ammonia Nitrate Prill and Fuel Oil (Blasting Agent)
- Bulk Emulsion Blends=Ammonium Nitrate Solution + Fuel Oil + Ammonium Nitrate Prill
- Cast Boosters
- Electronic Detonator Assemblies
- Nonel – non-electric Detonators

7) The period of time the anticipated use shall continue.

Orica USA Inc. anticipates continuing to perform blasting services at the Lehigh Hanson - Servtex Quarry through the period of the existing contract which will correlate with the Partial Exemption Permit for Blasting (i.e. October 1, 2016 to September 30, 2017).

8) Any supplemental information requested and deemed pertinent by the City Administrator.

Not applicable at this time

9) Any supplemental information the designee deems pertinent prior to City Council consideration.

Proof of Insurance

- Refer Appendix 2.0 for the Certificate of Liability Insurance
(Note: Orica issues Certificate of Liability Insurance annually on the 25th of September.
A new Certificate of Liability Insurance will be issued on September 25, 2016)

Monitoring

- A third party selected by the Regulatory Authority shall perform the primary seismic monitoring.
- Orica will utilize the Site Law Model, a software modeling program to predict a blast's PPV. The Site Law Model determines the minimum instantaneous charge weight for each shot prior to loading.
- Ground vibration shall not exceed the frequency based PPV limit of 75% of the USBMZ – curve as recorded by any monitor designated by the Regulatory Authority.

Weather

- Orica will monitor all weather patterns and conditions prior to loading each shot. The blaster will communicate with quarry management and discuss any weather conditions that may adversely affect the ground vibration and air blast reading or the outcome of a blast, prior to loading a shot.

Guidelines

- Orica may modify the above guidelines based on the past history and knowledge gained over time from the previous blast fired at Lehigh Hanson – Servtex Quarry. Analysis of ground vibration and air blast data collected from past seismic monitoring at the Lehigh Hanson Servtex Quarry will provide a basis in the modification of guidelines.
- Orica will conduct its blasting practices within the guidelines set forth by Federal, State and Local Governing Agencies while maintaining strict adherence to Orica blasting policies and procedures.

Also, included in this letter are the attachments identified below:

1) Identifying all real property where the activity of Blasting shall be conducted by street address (if any) and legal description. Any property not listed will not be included in any permit, if authorized. If multiple properties are to be considered, and some are not within the City limits, but is within the City's extra-territorial jurisdictional limits, please include each property in the list but designate the property with the comment: "ET J Property".

- Lehigh Hanson – Servtex Quarry

Refer Appendix 3.0 for the current map.

3) If you are not the owner of the real property, a letter from the Owner executed before a notary, that they are the owner of the property and authorize blasting activities on the property.

Letter from the Owner

- Refer Appendix 4.0 for the letter from Hanson(provided for the permit)

4) Documentation and facts demonstrating that the Requestor's Blasting operation is going to be conducted in a manner that minimizes its related adverse impact on property value, other land use development, the economy, employment, property taxes and the public and communities who live and work adjacent to such land use. Please specifically list all steps taken, such as distance limitations related to adjacent properties, use of berms and any dust and noise remediation efforts, etc.

- The attached is being provided for the permit
 - Lehigh Hanson Servtex will maintain the required distance off of the property line.
 - Use of water trucks to water haul road to minimize dust.
 - Built the berm between the quarry and Trophy Oaks for noise and dust control
 - Monitor weather conditions to plan shots days and timing of when the shot is initiated.
 - Refer to Section 9, of Attachment B — to Ordinance 34-052012

5) Documents and facts demonstrating efforts by designee to protect and mitigate the perceived negative adverse affects such activity has on real property values, public safety, health & welfare interests, including the quality of life within the City, neighboring properties and the public.

Refer to Section 9, of Attachment B — to Ordinance 34-052012

- Orica will continue to safely conduct blasting operations as it has in the past year, All efforts will be made to conduct all blast in a safe manner while meeting the strict guidelines of the Garden Ridge City Ordinance 34-052012

6) Payment of the appropriate application fee, including any related City fees for monitoring blasting for each permitted Partial Exemption Permit site.

- To be paid by Orica USA Inc. (to be done by Byron Lossett)

If you require any additional information or have any comments or questions to this letter, please do not hesitate to contact me at the phone, e-mail or address set forth above.

Thank you for your time, and we look forward to working with the City of Garden Ridge on this matter.

Sincerely,

Byron Lossett
General Manager
US Mining Services
Southwest Region



U.S. Department of Justice
 Bureau of Alcohol, Tobacco, Firearms and Explosives
 Federal Explosives Licensing Center
 244 Needy Road
 Martinsburg, West Virginia 25405

901090: CRR/FLS
 5400
 File Number: 5TX12375

02/14/2013

SUBJECT: **EMPLOYEE POSSESSOR LETTER OF CLEARANCE** for:

BYRON JOSEPH LOSSETT 02/06/1975 425359393

REGIONAL OPERATIONS
 (512)943-0026

4004 GRANADA DR
 GEORGETOWN, TX 79628-1616

and is **ONLY** valid under the following Federal explosives license/permit:

5-TX-029-20-6L-12375

ORICA USA INC
 4899 LOOP 1604
 SAN ANTONIO, TX 78257

Dear BYRON LOSSETT:

You have been approved to transport, ship, receive or possess explosive materials as an employee possessor under the Federal explosive license or permit indicated above. **This clearance is only valid under the license or permit referenced above.**

Sincerely,

Christopher R. Reeves

Christopher R. Reeves
 Chief, Federal Explosives Licensing Center (FELC)

FELC Customer Service. If you believe that information on your "Letter of Clearance" is incorrect, please return a COPY of the letter to the Chief, Federal Explosives Licensing Center (FELC), with a statement showing the nature of the error. The Chief, FELC, shall correct the error, and return an amended letter to you.

Mail: ATF
 Chief, FELC
 Attn: LOC Correction
 244 Needy Road
 Martinsburg, West Virginia 25405

Fax: 1-304-616-4401
 Chief, FELC
 Attn: LOC Correction

Call toll-free: 1-877-283-3352

BYRON JOSEPH LOSSETT

Employee Possessor Letter of Clearance for:

5TX12375-FELC-4004GRANADA-LOSSETT-02FELC-020715-0000-0000-0000-0000-0000-0000-0000-0000-0000-0000

WWW.ATF.GOV

U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives

Federal Explosives License/Permit
(18 U.S.C. Chapter 40)

11 2002 RELEASE UNDER E.O. 14176

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number 5-TX-091-20-8L-12375
Chief, Federal Explosives Licensing Center (FELC) <i>Christopher R. Reeves</i>	Expiration Date November 1, 2018

Name
ORICA USA INC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)
**5844 FM 482
NEW BRAUNFELS, TX 78132-**

Type of License or Permit
20-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)

ORICA USA INC
33101 EAST QUINCY AVE ATTN: OLIVER RAMIREZ
WATKINS, CO 80137-

Byron Lossett

South West Region District Lead

License/Permittee Responsible Person Signature
Byron Lossett
Printed Name

Position/Title
12/01/2015
Date

Previous Edition is Obsolete ORICA USA INC 5844 FM 482 78132-5 TX 091 20 8L 12375 November 1, 2016 20-MANUFACTURER OF EXPLOSIVES

ATF Form 5400.14/5400.15 Part I
Revised October 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number: (877) 283-3352
Fax Number: (304) 616-4401
E-mail: FELC@atf.gov

ATF Homepage: www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. **(The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)**

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

Cut Here ✂

(Continued on reverse side)

Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **ORICA USA INC**

Business Name:

License/Permit Number: **5-TX-091-20-8L-12375**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **November 1, 2018**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

P E R M I T

CITY OF SAN ANTONIO

FIRE PREVENTION DIVISION

1901 SOUTH ALAMO STREET

SAN ANTONIO, TEXAS 78204

(210) 207-8410 FAX: (210) 207-7949



PERMIT NO.	PERMIT TYPE	BUSINESS/ORGANIZATION	APPLICATION DATE	ISSUED DATE	EXPIRATION DATE
918932	EXPLOSIVES		04/13/2009	04/13/2009	08/05/2017
PERMIT HOLDER INFORMATION:					
BRAD A MINKINA 21541 OLD NACOGDOCHES NEW BRAUNFELS					
ADDITIONAL PERMIT INFORMATION:					
BLASTER RENEWAL FOR BRAD A MINKINA ORICA					
<p>BY VIRTUE OF THE PROVISIONS OF THE ADOPTED 2012 INTERNATIONAL FIRE CODE AND THE ORDINANCES CODIFIED IN THE CITY CODE OF SAN ANTONIO, TEXAS, THE ABOVE NAMED APPLICANT, AT THE ABOVE NAMED LOCATION, IS HEREBY GRANTED THIS PERMIT FOR:</p> <p style="text-align: center;">EXPLOSIVES BLASTER - RENEWAL</p> <p>THIS PERMIT MUST BE KEPT POSTED ON THE PREMISES AT ALL TIMES AND IS ISSUED AND ACCEPTED ON CONDITION THAT ALL REGULATIONS NOW ADOPTED, OR MAY HEREAFTER BE ADOPTED, SHALL BE COMPLIED WITH.</p> <p>THIS PERMIT IS SUBJECT TO REVOCATION FOR ANY APPLICABLE FIRE CODE VIOLATION(S) AND DOES NOT TAKE THE PLACE OF ANY LICENSE REQUIRED BY LAW AND IS NOT TRANSFERABLE.</p> <p>THIS EXPLOSIVES BLASTER - RENEWAL PERMIT IS UNASSIGNABLE AND NON-TRANSFERABLE AND NO PERSON SHALL OPERATE UNDER, OR HAVE THE BENEFIT OF, ANOTHER PERSON'S PERMIT.</p>					

APPROVED BY: Richard Becker DATE: 8/8/16

P E R M I T

CITY OF SAN ANTONIO

FIRE PREVENTION DIVISION

1901 SOUTH ALAMO STREET

SAN ANTONIO, TEXAS 78204

(210) 207-8410 FAX: (210) 207-7949



PERMIT NO.	PERMIT TYPE	BUSINESS/ORGANIZATION	APPLICATION DATE	ISSUED DATE	EXPIRATION DATE
922829	EXPLOSIVES		07/15/2015	07/26/2012	08/05/2017
PERMIT HOLDER INFORMATION:					
ADAM NICHOLS 4092 JUNCTION HWY INGRAM (830)708-2864 x					
ADDITIONAL PERMIT INFORMATION:					
BLASTER -QUARRY /HANDLER BLASTER: ADAM NICHOLS					
<p>BY VIRTUE OF THE PROVISIONS OF THE ADOPTED 2012 INTERNATIONAL FIRE CODE AND THE ORDINANCES CODIFIED IN THE CITY CODE OF SAN ANTONIO, TEXAS, THE ABOVE NAMED APPLICANT, AT THE ABOVE NAMED LOCATION, IS HEREBY GRANTED THIS PERMIT FOR:</p> <p style="text-align: center;">EXPLOSIVES BLASTER</p> <p>THIS PERMIT MUST BE KEPT POSTED ON THE PREMISES AT ALL TIMES AND IS ISSUED AND ACCEPTED ON CONDITION THAT ALL REGULATIONS NOW ADOPTED, OR MAY HEREAFTER BE ADOPTED, SHALL BE COMPLIED WITH.</p> <p>THIS PERMIT IS SUBJECT TO REVOCATION FOR ANY APPLICABLE FIRE CODE VIOLATION(S) AND DOES NOT TAKE THE PLACE OF ANY LICENSE REQUIRED BY LAW AND IS NOT TRANSFERABLE.</p> <p>THIS EXPLOSIVES BLASTER PERMIT IS UNASSIGNABLE AND NON-TRANSFERABLE AND NO PERSON SHALL OPERATE UNDER, OR HAVE THE BENEFIT OF, ANOTHER PERSON'S PERMIT.</p>					

APPROVED BY:

DATE:

8/8/16



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
09/25/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Insurance Services West, Inc. Denver CO Office 1900 16th Street, Suite 1000 Denver CO 80202 USA	CONTACT NAME: PHONE (A/C. No. Ext): (303) 758-7688 FAX (A/C. No.): (303) 758-9458 E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
INSURED Orica Mountain West Inc. 33101 E Quincy Avenue Watkins CO 80137 USA	INSURER A: New Hampshire Ins Co	NAIC # 23841
	INSURER B: Zurich American Ins Co	NAIC # 16535
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER:** 570059573887 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS shown as requested	
B	X COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER			GLC379285308	09/30/2015	09/30/2016	EACH OCCURRENCE \$10,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$10,000,000 GENERAL AGGREGATE \$10,000,000 PRODUCTS - COMP/OP AGG \$10,000,000	
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			BAP 3792838-08	09/30/2015	09/30/2016	COMBINED SINGLE LIMIT (Ea accident) \$10,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION						EACH OCCURRENCE AGGREGATE	
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE / OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC029342270	09/30/2015	09/30/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	E.L. EACH ACCIDENT \$5,000,000 E.L. DISEASE-EA EMPLOYEE \$5,000,000 E.L. DISEASE-POLICY LIMIT \$5,000,000

Certificate No. : 570059573887

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Evidence of Insurance.

CERTIFICATE HOLDER Orica USA Inc. 33101 E. Quincy Avenue Watkins CO 80137 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Aon Risk Insurance Services West Inc.</i>
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**Hanson Aggregates
Servtex Quarry**

July 30th, 2016

Nancy Cain
City Administrator
City of Garden Ridge
9500 Municipal Parkway
Garden Ridge, Texas, 78266-2600

RE: Orica's Application for a Partial Exemption Permit for Blasting in October 2016 through September 2017.

Nancy,

We have asked Orica to pursue obtaining a Partial Exemption Permit for Blasting within the City Limits of Garden Ridge per Ordinance 34 for the fiscal year of 2017. We will assist with any necessary documentation for the permit. If there is any questions or concerns, please contact me directly at Jacob.Scherer@hanson.com or my office phone (210) 658-7461.

Best Regards,


Jacob Scherer

CC: Byron Lossett, Orica Explosives, Donnie Ruddick, Orica Explosives



City of Garden Ridge

9400 Municipal Parkway
Garden Ridge, Texas 78266-2600
(210) 651-6632
Fax (210) 651-9638

MINUTES OF QUARRY COMMISSION REGULAR MEETING AUGUST 8, 2016

Members Present:

Vice Chairman Wayne Mudge
Commissioner Jerry Barucky
Commissioner Albert Haddad
Commissioner Richard Holloway
Commissioner Johnell Holly
Commissioner Jim Morgan
Ex-Officio Member Councilmember Bryan Lantzy

Member Absent:

Chairman Mike Shands

City Staff Present:

Nancy Cain, City Administrator
Cynthia Trevino, City Attorney
Shelley Goodwin, City Secretary

1. Call to Order

With a quorum of the Quarry Commission Members present, Vice Chair Wayne Mudge called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, August 8, 2016 in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Approval of Minutes:

a) June 13, 2016 Regular Quarry Commission Meeting

Motion: Upon motion made by Commissioner Holly and seconded by Commissioner Holloway to approve June 13, 2016 Quarry Commission Meeting Minutes. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

3. Citizens Comments

No one wished to speak.

4. **Business Items:**

The City Quarry Commission may discuss, consider, and /or take possible action for possible recommendation to the City Council for the following items:

- a. **Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratech. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.**

Nicholas Righter of Vibra-Tech presented and discussed the June blast analysis. He stated that 11 blasts occurred during the month of June and none of the blast exceeded the limits of Ordinance 34. The highest ppv readings occurred on June 28, 2016 in Lower 3A, with .227 ppv recorded at the Warden residence. The strongest air blast occurring on June 8, 2016 with an overpressure of 117.0 recorded at the Warden property line. He also discussed the timing and shots. He then presented and discussed the July blast analysis. He stated that 11 blasts occurred during the month of July and none of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on July 8, 2016 in Bench 3B, with .232 ppv recorded at the Warden residents. The strongest air blast occurring on July 13, 2016 at the Warden residence with b an overpressure of 118.4 recorded. He also discussed the timing and shots.

The Quarry Commission reviewed the shots and the blast analysis.

Nicholas Righter of Vibra-Tech explained the graphics.

- b. **Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.**

The Quarry Commission reviewed the citizen blast reports that were received by Robert Kessler (3 reports), and M.J. Mills.

Nicholas Righter, Vibra-Tech, reviewed the shot reports for each citizen blast report received during the months of June and July.

- c. **Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratech and notification to residents of monitor placements.**

The Quarry Commission discussed the placement of the roving monitor. They agreed by consensus for the roving monitor to be placed at the Carolyn Cohen residence.

- d. **Discuss and possible recommendation of reappointment of Commissioners Holly, Morgan and Barucky due to expiring terms of office (September 30, 2016).**

Commissioners Holly and Barucky agreed to serve another term, but Commissioner Morgan stated he would not be seeking another term.

Motion: Upon motion made by Commissioner Holloway and seconded by Commissioner Haddad to recommend to City Council the recommendation of reappointments of Commissioners Holly and Barucky. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

e. Discuss and possible recommendation of moving October 10, 2016 Quarry Commission Regular Meeting (Columbus Day) (proposed Monday, October 17, 2016).

Nancy Cain, City Administrator, stated the next Quarry Commission Regular Meeting is scheduled for October 17, 2016, Columbus Day. She suggested moving it up a week or back a week. She also stated the Quarry Commission will need to approve a Blasting Permit that expires the last day of September, she suggest holding a meeting on September 12th and not holding a meeting in October.

The Quarry Commission agreed by consensus to hold a meeting on Monday, September 12, 2016 at 6 p.m. to hear the Blasting Permit Request if all the required documents are submitted.

f. Discuss Grapevine article topics and future author/s of articles.

The Quarry Commission discussed the upcoming Grapevine article topic, which will be written by Commissioner Barucky.

g. Discuss future training sessions.

The Quarry Commission discussed future training sessions and agreed by consensus the next training session would be on the blast regression analysis.

5. Citizen's Participation: - 3 minute limit per citizen.

Jacob Shearer, Hanson Quarry, stated he is now the Regional Manager for Hanson. The new Plant Manager is Hal Halamuda.

6. Adjournment:

There being no further business, the Monday, August 8, 2016 Garden Ridge Quarry Commission regular meeting was adjourned at 6:32 p.m. by Chairman Mudge.

Wayne Mudge
Quarry Commission Vice Chair

ATTEST

Shelley Goodwin
City Secretary



September 7, 2016

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

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

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of August 2016 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2016 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel used seismographs each day of blasting at various locations.

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

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

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

If there are any additional questions, please contact the Quarry Commission, Mike Shands at 210-257-0868, or attend the Quarry Commission meeting held the 2nd Monday of each month at 7:00 p.m.

Respectfully submitted,

VIBRA-TECH, INC.

A handwritten signature in black ink, appearing to read "Geoffrey Rigsby". The signature is fluid and cursive, with the first name starting with a large 'G' and the last name starting with a large 'R'.

Geoffrey Rigsby
Southwest Regional Manager

cc: Jacob Scherer, Hanson – Servtex

**GARDEN RIDGE QUARRY COMMISSION
GARDEN RIDGE, TEXAS
MONTH OF AUGUST
2016**

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
08/01/16	08-01-16 1B	N 29° 38' 34.6" W 098° 17' 33.8"	CLEAR 91° S 10	13:30	0.050	6.1	103.0	968	250.00	2,151	City Property Line
08/01/16	08-01-16 1B	N 29° 38' 34.6" W 098° 17' 33.8"	CLEAR 91° S 10	13:30	0.060	7.4	101.0	968	250.00	4,388	Michels - 9118 Tuscan Hills
08/01/16	08-01-16 1B	N 29° 38' 34.6" W 098° 17' 33.8"	CLEAR 91° S 10	13:30	0.033	6.8	84.0	968	250.00	6,806	Midla - 8724 Verano Drive
08/01/16	08-01-16 1B	N 29° 38' 34.6" W 098° 17' 33.8"	CLEAR 91° S 10	13:30	0.395	20.8	112.0	968	250.00	1,296	Warden - 21375 Gunther Grove
08/01/16	08-01-16 1B	N 29° 38' 34.6" W 098° 17' 33.8"	CLEAR 91° S 10	13:30	0.235	19.2	113.0	968	250.00	1,075	Warden Property Line
08/02/16	08-02-16 3D	N 29° 38' 50.2" W 098° 17' 37.5"	CLEAR 91° S 8	11:52	0.048	6.1	101.0	990	923.00	3,148	City Property Line
08/02/16	08-02-16 3D	N 29° 38' 50.2" W 098° 17' 37.5"	CLEAR 91° S 8	11:52	0.095	7.4	103.0	990	923.00	3,696	Michels - 9118 Tuscan Hills
08/02/16	08-02-16 3D	N 29° 38' 50.2" W 098° 17' 37.5"	CLEAR 91° S 8	11:52	0.063	10.0	84.0	990	923.00	6,696	Midla - 8724 Verano Drive
08/02/16	08-02-16 3D	N 29° 38' 50.2" W 098° 17' 37.5"	CLEAR 91° S 8	11:52	0.143	9.4	110.0	990	923.00	2,765	Warden - 21375 Gunther Grove
08/02/16	08-02-16 3D	N 29° 38' 50.2" W 098° 17' 37.5"	CLEAR 91° S 8	11:52	0.108	7.0	111.0	990	923.00	2,557	Warden Property Line
08/03/16	08-03-16 S Wall B	N 29° 38' 13.5" W 098° 16' 43.8"	PT CLOUDY 87° SW 8	11:21	NT	NT	NT	637	1053.00	6,249	City Property Line
08/03/16	08-03-16 S Wall B	N 29° 38' 13.5" W 098° 16' 43.8"	PT CLOUDY 87° SW 8	11:21	0.063	7.6	101.0	637	1053.00	3,720	Holly - 9916 Trophy Oaks
08/03/16	08-03-16 S Wall B	N 29° 38' 13.5" W 098° 16' 43.8"	PT CLOUDY 87° SW 8	11:21	NT	NT	NT	637	1053.00	9,282	Michels - 9118 Tuscan Hills
08/03/16	08-03-16 S Wall B	N 29° 38' 13.5" W 098° 16' 43.8"	PT CLOUDY 87° SW 8	11:21	NT	NT	NT	637	1053.00	11,392	Midla - 8724 Verano Drive
08/03/16	08-03-16 S Wall B	N 29° 38' 13.5" W 098° 16' 43.8"	PT CLOUDY 87° SW 8	11:21	0.065	8.5	114.0	637	1053.00	5,043	Warden - 21375 Gunther Grove

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

**GARDEN RIDGE QUARRY COMMISSION
GARDEN RIDGE, TEXAS
MONTH OF AUGUST
2016**

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
08/08/16	08-08-16 S Wall A	N 29° 38' 14.3" W 098° 16' 40.3"	CLEAR 96° SW 5	12:56	0.023	3.8	11.9	610	1001.00	6,543	City Property Line
08/08/16	08-08-16 S Wall A	N 29° 38' 14.3" W 098° 16' 40.3"	CLEAR 96° SW 5	12:56	0.058	7.4	100.0	610	1001.00	4,026	Holly - 9916 Trophy Oaks
08/08/16	08-08-16 S Wall A	N 29° 38' 14.3" W 098° 16' 40.3"	CLEAR 96° SW 5	12:56	NT	NT	NT	610	1001.00	9,529	Michels - 9118 Tuscan Hills
08/08/16	08-08-16 S Wall A	N 29° 38' 14.3" W 098° 16' 40.3"	CLEAR 96° SW 5	12:56	NT	NT	NT	610	1001.00	11,682	Midla - 8724 Verano Drive
08/08/16	08-08-16 S Wall A	N 29° 38' 14.3" W 098° 16' 40.3"	CLEAR 96° SW 5	12:56	0.105	13.5	112.0	610	1001.00	5,232	Warden - 21375 Gunther Grove
08/11/16	08-11-16 Lower 6	N 29° 38' 51.2" W 098° 17' 09.9"	PT CLOUDY 95° S 6	13:19	NT	NT	NT	1000	480.00	4,842	City Property Line
08/11/16	08-11-16 Lower 6	N 29° 38' 51.2" W 098° 17' 09.9"	PT CLOUDY 95° S 6	13:19	0.043	6.7	110.0	1000	480.00	4,414	Cohen - 10041 Trophy Oaks
08/11/16	08-11-16 Lower 6	N 29° 38' 51.2" W 098° 17' 09.9"	PT CLOUDY 95° S 6	13:19	0.078	19.2	95.0	1000	480.00	6,123	Michels - 9118 Tuscan Hills
08/11/16	08-11-16 Lower 6	N 29° 38' 51.2" W 098° 17' 09.9"	PT CLOUDY 95° S 6	13:19	0.093	17.9	113.0	1000	480.00	3,898	Warden - 21375 Gunther Grove
08/11/16	08-11-16 Lower 6	N 29° 38' 51.2" W 098° 17' 09.9"	PT CLOUDY 95° S 6	13:19	0.043	13.2	111.0	1000	480.00	3,690	Warden Property Line
08/12/16	08-12-16 4A	N 29° 38' 58.8" W 098° 17' 38.1"	CLEAR 98° S 6	14:03	NT	NT	NT	923	715.00	3,923	City Property Line
08/12/16	08-12-16 4A	N 29° 38' 58.8" W 098° 17' 38.1"	CLEAR 98° S 6	14:03	0.035	4.5	108.0	923	715.00	4,498	Cohen - 10041 Trophy Oaks
08/12/16	08-12-16 4A	N 29° 38' 58.8" W 098° 17' 38.1"	CLEAR 98° S 6	14:03	0.058	10.9	102.0	923	715.00	3,704	Michels - 9118 Tuscan Hills
08/12/16	08-12-16 4A	N 29° 38' 58.8" W 098° 17' 38.1"	CLEAR 98° S 6	14:03	0.093	14.3	110.0	923	715.00	3,632	Warden - 21375 Gunther Grove
08/12/16	08-12-16 4A	N 29° 38' 58.8" W 098° 17' 38.1"	CLEAR 98° S 6	14:03	0.035	13.5	112.0	923	715.00	3,426	Warden Property Line

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**GARDEN RIDGE QUARRY COMMISSION
GARDEN RIDGE, TEXAS
MONTH OF AUGUST
2016**

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
08/19/16	08-19-16 3D	N 29° 38' 49.7" W 098° 17' 37.7"	CLOUDY 88° S 9	12:27	0.043	7.4	101.0	1200	923.00	3,095	City Property Line
08/19/16	08-19-16 3D	N 29° 38' 49.7" W 098° 17' 37.7"	CLOUDY 88° S 9	12:27	0.060	9.8	106.0	1200	923.00	3,575	Cohen - 10041 Trophy Oaks
08/19/16	08-19-16 3D	N 29° 38' 49.7" W 098° 17' 37.7"	CLOUDY 88° S 9	12:27	0.075	7.4	101.0	1200	923.00	3,682	Michels - 9118 Tuscan Hills
08/19/16	08-19-16 3D	N 29° 38' 49.7" W 098° 17' 37.7"	CLOUDY 88° S 9	12:27	0.133	9.3	111.0	1200	923.00	2,713	Warden - 21375 Gunther Grove
08/19/16	08-19-16 3D	N 29° 38' 49.7" W 098° 17' 37.7"	CLOUDY 88° S 9	12:27	0.115	8.6	112.0	1200	923.00	2,506	Warden Property Line
08/23/16	08-23-16 3E	N 29° 38' 54.4" W 098° 17' 38.3"	PT CLOUDY 88° S 14	12:06	0.023	7.4	95.0	1000	871.00	3,503	City Property Line
08/23/16	08-23-16 3E	N 29° 38' 54.4" W 098° 17' 38.3"	PT CLOUDY 88° S 14	12:06	0.070	31.3	98.0	1000	871.00	4,053	Cohen - 10041 Trophy Oaks
08/23/16	08-23-16 3E	N 29° 38' 54.4" W 098° 17' 38.3"	PT CLOUDY 88° S 14	12:06	0.043	11.4	101.0	1000	871.00	3,630	Michels - 9118 Tuscan Hills
08/23/16	08-23-16 3E	N 29° 38' 54.4" W 098° 17' 38.3"	PT CLOUDY 88° S 14	12:06	0.083	9.6	101.0	1000	871.00	3,185	Warden - 21375 Gunther Grove
08/23/16	08-23-16 3E	N 29° 38' 54.4" W 098° 17' 38.3"	PT CLOUDY 88° S 14	12:06	0.038	20.8	103.0	1000	871.00	2,980	Warden Property Line
08/24/16	08-24-16 4B	N 29° 39' 02.5" W 098° 17' 36.4"	PT CLOUDY 84° S 11	11:38	0.035	13.9	109.0	470	860.00	4,326	City Property Line
08/24/16	08-24-16 4B	N 29° 39' 02.5" W 098° 17' 36.4"	PT CLOUDY 84° S 11	11:38	0.083	17.2	106.0	470	860.00	4,871	Cohen - 10041 Trophy Oaks
08/24/16	08-24-16 4B	N 29° 39' 02.5" W 098° 17' 36.4"	PT CLOUDY 84° S 11	11:38	0.063	10.4	101.0	470	860.00	3,935	Michels - 9118 Tuscan Hills
08/24/16	08-24-16 4B	N 29° 39' 02.5" W 098° 17' 36.4"	PT CLOUDY 84° S 11	11:38	0.105	16.1	112.0	470	860.00	4,015	Warden - 21375 Gunther Grove
08/24/16	08-24-16 4B	N 29° 39' 02.5" W 098° 17' 36.4"	PT CLOUDY 84° S 11	11:38	0.100	23.8	112.0	470	860.00	3,807	Warden Property Line

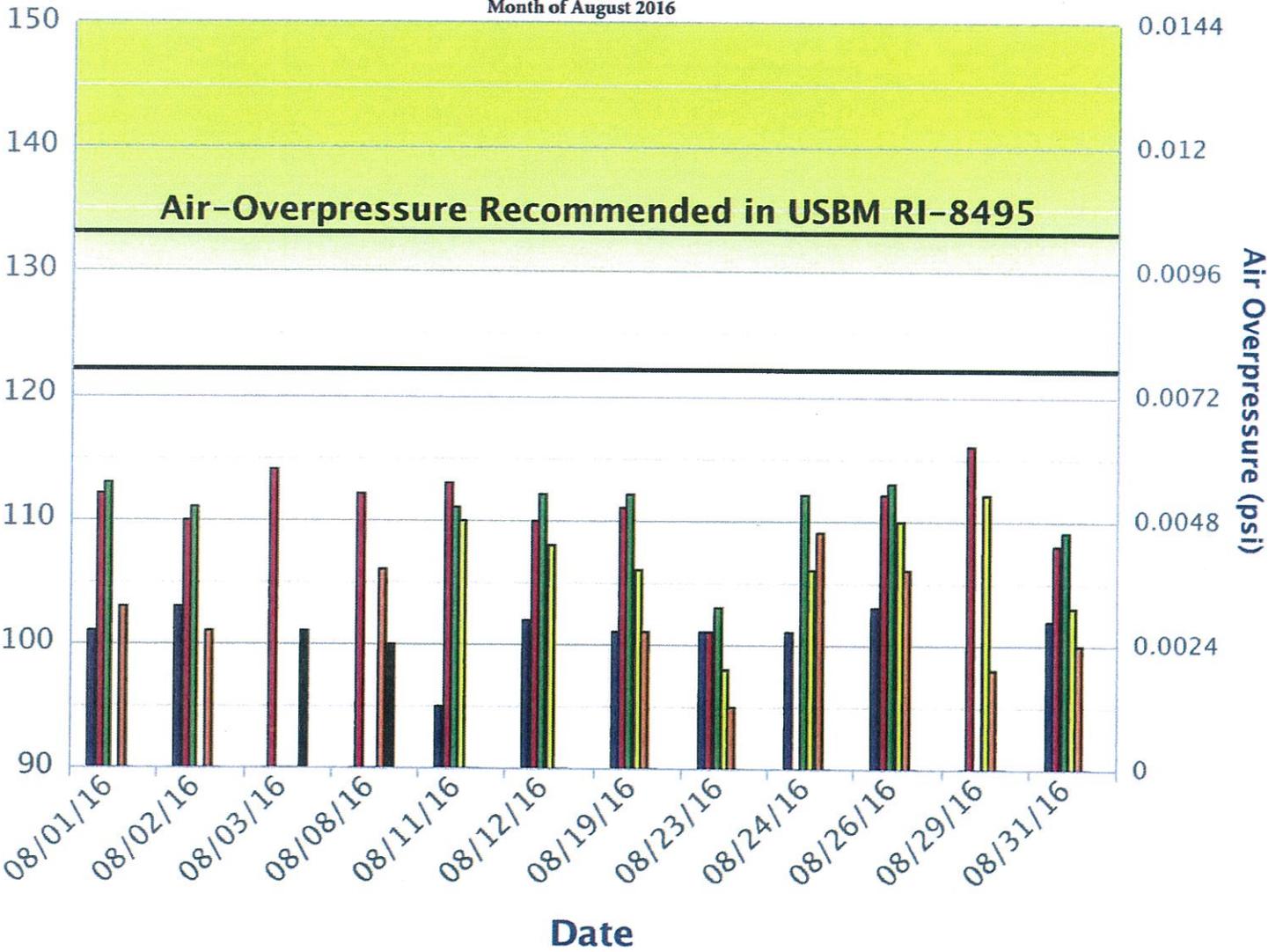
NT = No Trigger, <0.020 ips.
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**GARDEN RIDGE QUARRY COMMISSION
GARDEN RIDGE, TEXAS
MONTH OF AUGUST
2016**

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
08/26/16	08-26-16 4A	N 29° 38' 59.6" W 098° 17' 38.1"	PT CLOUDY 87° SE 1	11:58	0.040	11.9	106.0	923	630.00	3,999	City Property Line
08/26/16	08-26-16 4A	N 29° 38' 59.6" W 098° 17' 38.1"	PT CLOUDY 87° SE 1	11:58	0.060	12.8	110.0	923	630.00	4,579	Cohen - 10041 Trophy Oaks
08/26/16	08-26-16 4A	N 29° 38' 59.6" W 098° 17' 38.1"	PT CLOUDY 87° SE 1	11:58	0.070	12.5	103.0	923	630.00	3,720	Michels - 9118 Tuscan Hills
08/26/16	08-26-16 4A	N 29° 38' 59.6" W 098° 17' 38.1"	PT CLOUDY 87° SE 1	11:58	0.100	11.4	112.0	923	630.00	3,713	Warden - 21375 Gunther Grove
08/26/16	08-26-16 4A	N 29° 38' 59.6" W 098° 17' 38.1"	PT CLOUDY 87° SE 1	11:58	0.070	13.2	113.0	923	630.00	3,507	Warden Property Line
08/29/16	08-29-16 S Wall 0	N 29° 38' 17.6" W 098° 16' 36.9"	CLOUDY 84° NE 13	14:39	0.020	4.6	98.0	432	988.00	6,807	City Property Line
08/29/16	08-29-16 S Wall 0	N 29° 38' 17.6" W 098° 16' 36.9"	CLOUDY 84° NE 13	14:39	0.045	5.1	112.0	432	988.00	5,283	Cohen - 10041 Trophy Oaks
08/29/16	08-29-16 S Wall 0	N 29° 38' 17.6" W 098° 16' 36.9"	CLOUDY 84° NE 13	14:39	0.028	6.2	84.0	432	988.00	4,333	Holly - 9916 Trophy Oaks
08/29/16	08-29-16 S Wall 0	N 29° 38' 17.6" W 098° 16' 36.9"	CLOUDY 84° NE 13	14:39	NT	NT	NT	432	988.00	9,679	Michels - 9118 Tuscan Hills
08/29/16	08-29-16 S Wall 0	N 29° 38' 17.6" W 098° 16' 36.9"	CLOUDY 84° NE 13	14:39	0.030	7.8	116.0	432	988.00	5,585	Warden - 21375 Gunther Grove
08/31/16	08-31-16 3D	N 29° 38' 49.2" W 098° 17' 37.8"	PT CLOUDY 89° E 6	13:40	0.045	6.3	100.0	990	923.00	3,046	City Property Line
08/31/16	08-31-16 3D	N 29° 38' 49.2" W 098° 17' 37.8"	PT CLOUDY 89° E 6	13:40	0.055	9.1	103.0	990	923.00	3,525	Cohen - 10041 Trophy Oaks
08/31/16	08-31-16 3D	N 29° 38' 49.2" W 098° 17' 37.8"	PT CLOUDY 89° E 6	13:40	0.045	8.6	102.0	990	923.00	3,676	Michels - 9118 Tuscan Hills
08/31/16	08-31-16 3D	N 29° 38' 49.2" W 098° 17' 37.8"	PT CLOUDY 89° E 6	13:40	0.130	14.7	108.0	990	923.00	2,662	Warden - 21375 Gunther Grove
08/31/16	08-31-16 3D	N 29° 38' 49.2" W 098° 17' 37.8"	PT CLOUDY 89° E 6	13:40	0.130	14.7	109.0	990	923.00	2,455	Warden Property Line

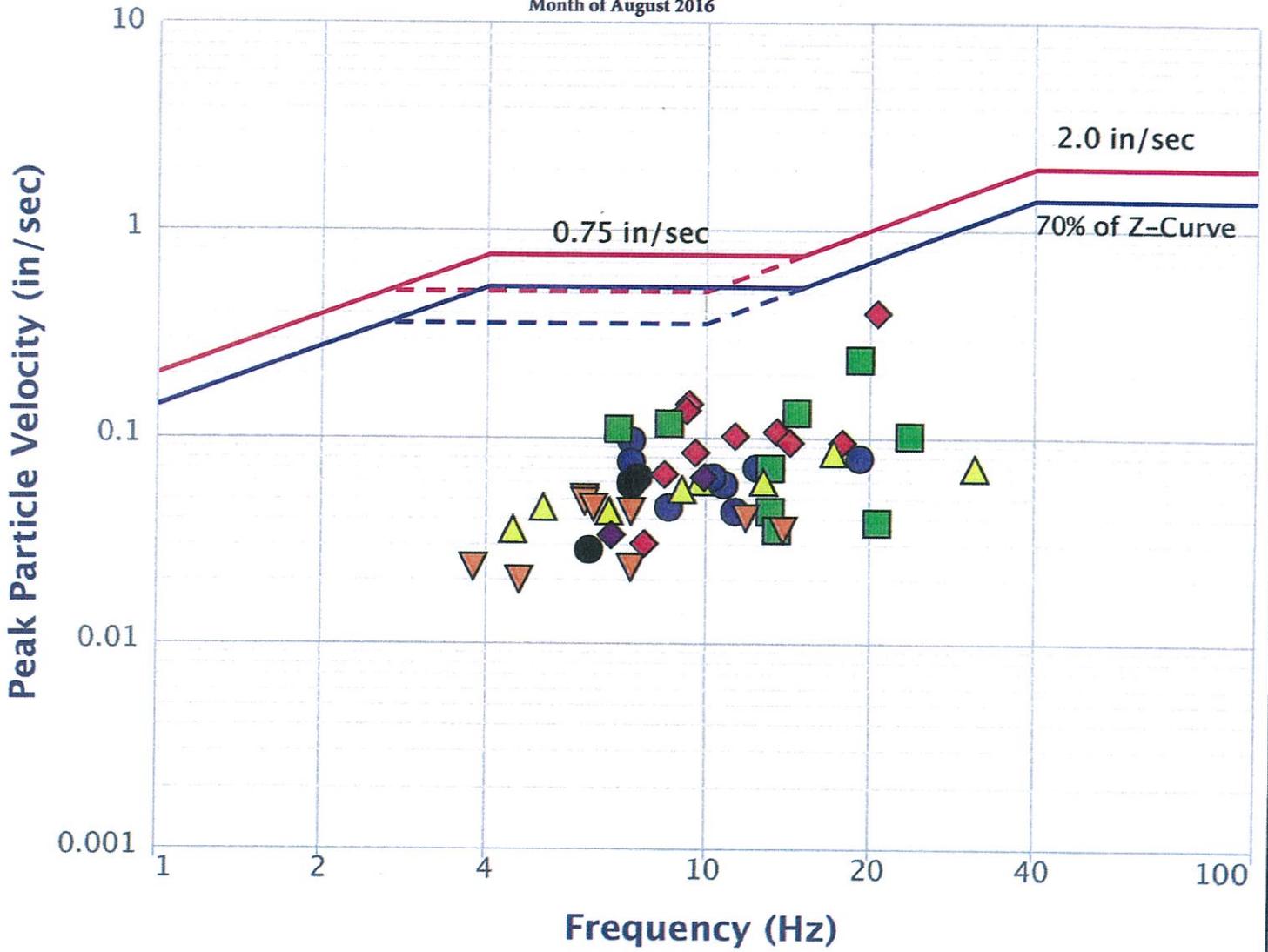
NT = No Trigger, <0.020 ips.
NT = No Trigger, <122dB

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 Month of August 2016



- Michels Residence
- Warden Residence
- Warden Property Line
- Cohen Residence
- City Property Line
- Holly Residence
- Midla Residence

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 USBM Graph
 Month of August 2016



- Michels Residence ◆ Warden Residence ■ Warden Property Line ▲ Cohen Residence
- ▼ City Property Line ● Holly Residence ◆ Midla Residence

From: noreply@civicplus.com
Sent: Tuesday, August 30, 2016 2:20 PM
To: City Administrator; City Secretary
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	OLIVIA
Last Name	CRUZ
Report Date	8/26/2016
Phone Number:	210-776-6847
E-Mail Address	<u>CRUZ-OLIVIA@ATT.NET</u>
Address 1	22410 ORO VEJIO CT
Blast Date/Time:	08-26-16/11:58
Please describe the event.	family room floor and walls trembled/shook
How did this blast compare to other blasts?	<i>Field not completed.</i>
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	SITTING TALKING ON PHONE
In what general direction does you house face? (N,E,S or W)	W
What is the approximate square footage of your home?	3000
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	Yes

2016-6/8
nortg/2d

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: ROBERT KESSLER Report Date: 8/29/2016

Address: 19960 FM 2252 E-Mail Address: _____

Phone: 210-421-3587 Blast Date/Time: 8/29/2016 / 2:36 pm

Please describe the event.

Small Blast. SHOOK TABLE, FLOOR

How did this blast compare to other blasts? SMALLER THAN MOST

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 3

What was your activity at the time of the blast? PAPER WORK

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

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

What is the approximate square footage of your home? 2800

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

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

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

RECEIVED

AUG 30 2016

PER JH
2016-518 5/12

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: ROBERT KESSLER Report Date: 8/8/2016

Address: 19960 FM 2252 E-Mail Address: _____

Phone: 210-421-3587 Blast Date/Time: 8/8/2016 / 12:57

Please describe the event.

BLAST SHOOK COUCH - WALLS AND
OTHER FURNITURE

How did this blast compare to other blasts? SAME

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? RESTING ON COUCH

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

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

What is the approximate square footage of your home? 2800

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

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

RECEIVED

AUG 12 2016

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

PER JH 2016/4-8
not 16

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: ROBERT KESSLER Report Date: 8/3/16

Address: 19960 FM 2252 E-Mail Address: _____

Phone: 210-421-3587 Blast Date/Time: 8/3/16 / 11:20

Please describe the event.

HUGE BLAST - WALLS CREAKED
TABLES SHAKE - CONTINUED TO
ROCK FOR MINUTES. THE WORST
EVENT YET. THE FLOOR CONTINUED
TO MOVE UNDER MY FEET. WINDOWS
RATTLED, OPENED DRAWERS.

How did this blast compare to other blasts? WORST EVER

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

What was your activity at the time of the blast? COMPUTER WORK

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

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

What is the approximate square footage of your home? 2800

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

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

RECEIVED

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

AUG 12 2016

PER JH

2016/3-8

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: ROBERT KESSLER Report Date: 8/1/2016

Address: 19960 FM 2252 E-Mail Address: _____

Phone: 210-421-3587 Blast Date/Time: 8/1/2016 / 1:29

Please describe the event.

TABLE AND CHAIRS SHAKE

How did this blast compare to other blasts? SAME

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 3

What was your activity at the time of the blast? PAPER WORK

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

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

What is the approximate square footage of your home? 2800

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

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of each month at 7:00 PM in the Municipal Courtroom.

RECEIVED

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

AUG 02 2016

2016/2-8
PER JH.
5/11/16 GP
8-2

From: noreply@civicplus.com
Sent: Monday, August 01, 2016 1:35 PM
To: City Administrator; City Secretary
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name david

Last Name gordon

Report Date 8/1/2016

Phone Number: 830-708-3257

E-Mail Address dgordon.lng@gmail.com

Address1 21340 gunther grove

Blast Date/Time: 8/1/16 1:30

Please describe the event. Huge blast today, shook the house for a full 2 seconds.

How did this blast compare to other blasts? Seemed to be much larger than normal

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

What was your activity at the time of blast? 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? 400

Is your home a 1 story, 1 1/2 , or 2 story or large? 3 story

Would you like a Quarry Commission member to contact you regarding Yes