



TOWN OF PARADISE

5555 SKYWAY • PARADISE, CALIFORNIA 95969-4931
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www.townofparadise.com

Planning Commission Staff:

Susan Hartman, Community Development Director

Planning Commission Members:

Shannon Costa, Chair
James Clarkson, Vice Chair
Kim Morris, Commissioner
Stephanie Neumann, Commissioner
Anita Towslee, Commissioner

PLANNING COMMISSION ADJOURNED MEETING AGENDA 6:00 PM – April 21, 2020

In accordance with the Americans with Disabilities Act, if you need a special accommodation to participate, please contact Community Development Director Hartman, at 872-6291 ext. 114 at least 48 hours in advance of the meeting. Hearing assistance devices for the hearing impaired are available from the Presiding Clerk. Members of the public may address the Planning Commission on any agenda item. If you wish to address the Planning Commission on any matter on the Agenda, it is requested that you complete a "Request to Address Council/Commission" card and give it to the Presiding Clerk prior to the beginning of the Meeting. All writings or documents which are related to any item on an open session agenda and which are distributed to a majority of the Planning Commission within 72 hours of a Regular Meeting will be available for public inspection at the Town Hall in the Town Clerk or Community Development Services Department located at 5555 Skyway, at the time the subject writing or document is distributed to a majority of the subject body. Regular business hours are Monday through Thursday from 8:00 a.m. to 5:00 p.m.

CALL TO ORDER

PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA

ROLL CALL

1. APPROVAL OF MINUTES

- 1a. Approval of February 18, 2020 regular meeting minutes

2. COMMUNICATION

- 2a. Recent Council Actions
- 2b. Staff Comments

3. PUBLIC COMMUNICATION/PARTICIPATION

Public Communication Participation

In accordance with Governor Newsom's Executive Order N-29-20, remote public participation is allowed in the following ways:

The Planning Commission meeting is available to be viewed on live-stream at <https://livestream.com/townofparadise/events/9087619>

Public comment will be accepted by email with the subject line PUBLIC COMMENT ITEM ____ to dvolenski@townofparadise.com prior to 5:30 p.m. on the day of the meeting and will be read into the record during public comment. Written comments are subject to the regular time limitations of five minutes per speaker, please limit to 400 words or less. If you are unable to provide your comments in writing, please contact the Clerk's office for assistance at (530) 872-6291.

Public comment may be submitted by telephone during the meeting, prior to the close of public comment on an item by calling (530) 872-5951 at the time indicated by the Chair. Alternately you may send an email with the subject line:

TELEPHONE PUBLIC COMMENT ITEM ____ to the Town Clerk and include your telephone number and the Chair will call you during public comment, dvolenski@townofparadise.com

Disabled persons may request reasonable modifications or accommodations relating to the use of telephonic or electronic observation and participation prior to the Council meeting by contacting the Town Clerk at (530) 872-6291 ext. 102.

*** PUBLIC HEARING PROCEDURE ***

- | | |
|-----------------------------------|--------------------------------|
| A. Staff comments | C. Close hearing to the public |
| B. Open the hearing to the public | D. Commission discussion |
| 1. Project applicant | E. Motion |
| 2. Parties for the project | F. Vote |
| 3. Parties against the project | |
| 4. Rebuttals | |

NOTE: Pursuant to Planning Commission Resolution No. 96-001, any person may speak before the Commission regarding the matter under consideration for a maximum of five minutes unless granted additional time by the Chair. "In accordance with the Americans with Disabilities Act, if you need a special accommodation to participate, please contact the Community Development Dept., at 872-6291 at least 48 hours in advance of the meeting."

4. CONTINUED PUBLIC HEARING

All comments previously received for the following hearing have been included as part of the agenda item.

- 4a. ANDERSON BROTHERS CORP. TEMPORARY USE PERMIT (PL19-00383) APPLICATION:** Please be prepared to discuss the proposed temporary (7-8 months) "Log Storage & Processing Yard" with staff, other Commissioners and the public during the required noticed public

hearing. At the conclusion of the public hearing, staff's recommendation is for the Planning Commission to render town approval and issuance of a Temporary Use Permit for the project application based on and subject to the findings and conditions embodied within the **attached Temporary Use Permit document**. If deemed necessary by a majority consensus of Planning Commissioners present, staff will be prepared to discuss and make possible changes or additions to the text of the attached and proposed Temporary Use Permit document prior to Planning Commission proposed project decision action. Project properties combine to encompass a 41.3-acre area zoned Community Commercial, Agricultural Residential 1-acre minimum, and Rural Residential 2/3-acre minimum located at, and adjacent to, 4716-4724 Skyway, Paradise, AP Nos. 051-240-011, 012 & 051-230-047, 054, & 055. (ROLL CALL VOTE)

All comments previously received for the following hearing have been included as part of the agenda item.

4b. FALLON SITE PLAN REVIEW PERMIT (PL19-00208) APPLICATION
Planning Commission consideration of a Site Plan Review permit to sanction the legal establishment and "three-phased" development and service operations by "Friends United in Rescue" of a cat kennel facility. Project property is a 19.43-acre parcel zoned Agricultural Residential, 3-acre minimum ("AR-3") located at 5050 Edgewood Lane, Paradise, AP No. 055-240-013. (ROLL CALL VOTE)

5. PUBLIC HEARING - None

6. OTHER BUSINESS

7. COMMITTEE ACTIVITIES

8. COMMISSION MEMBERS

8a. Identification of future agenda items (All Commissioners/Staff)

9. ADJOURNMENT

STATE OF CALIFORNIA)	SS.
COUNTY OF BUTTE)	
I declare under penalty of perjury that I am employed by the Town of Paradise in the Town Clerk's Department and that I posted this Agenda on the bulletin Board both inside and outside of Town Hall on the following date:	

TOWN/ASSISTANT TOWN CLERK SIGNATURE	



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PLANNING COMMISSION MINUTES

**February 18, 2020
6:00 PM**

CALL TO ORDER by Chair Costa at 6:00 p.m. who led the Pledge of Allegiance to the Flag of the United States of America.

PLANNING COMMISSIONERS PRESENT: Kim Morris, Anita Towslee and Shannon Costa, Chair.

PLANNING COMMISSIONERS ABSENT: James Clarkson and Stephanie Neumann.

1. APPROVAL OF MINUTES

- 1a. **MOTION by Morris, seconded by Costa**, approved December 19, 2019 Special Meeting minutes. Roll call vote was unanimous with Clarkson and Neumann absent and not voting.

2. COMMUNICATION

a. Recent Council Actions –Community Development Director Hartman apprised commissioners of previous council action. Which include a revision to the Interim Housing ordinance; hookups are now required for occupied recreational vehicles.

3. PUBLIC COMMUNICATION - None

4. CONTINUED PUBLIC HEARING - None

5. PUBLIC HEARING

- 5a. Community Development Director Hartman gave an overview on the proposed changes to Town zoning regulations in order to be consistent with state law. During 2019 the State of California (via the State legislature and the Governor) enacted new housing legislation **in effect January 1, 2020**, that requires all local municipal and county governments to provide for the creation of accessory dwelling units in areas zoned to allow single-family and/or multiple-family residential use. [Government Code Section 65852.2]

Public Hearing was opened at 6:18 p.m.

Public Hearing was closed at 6:18 p.m.

MOTION by Morris, seconded by Towslee, approved Resolution No. 20-01, A resolution that, if adopted, would recommend Town Council adoption of proposed zoning regulations text amendments in Paradise Municipal Code (PMC) Title 17 (Zoning Ordinance). If adopted by

Town Council, the amendments would: 1) alter and/or add the definition of the terms “Accessory dwelling”, “Agricultural building”, “Secondary dwelling” and “Single-family residence”; 2) add site development regulations addressing secondary dwelling(s) in areas zoned to allow single-family or multiple-family residential use in order to comply with state laws regarding accessory dwelling units; and 3) amend secondary dwelling off-street parking requirements. Roll call vote was unanimous with Clarkson and Neumann absent and not voting.

6. OTHER BUSINESS - None

7. COMMITTEE ACTIVITIES - None

8. COMMISSION MEMBERS

a. Identification of future agenda items (All Commissioners/Staff)

Community Development Director Hartman gave an overview of potential future items: Use Permit for a Cat Kennel on Edgewood, Two Temporary Use Permits for Tree processing facilities, Housing Element and General Plan Updates.

9. ADJOURNMENT

Chair Costa adjourned the meeting at 6:22 p.m.

Date Approved:

By: _____
Shannon Costa, Chair

Attest:

Ursula Smith, Deputy Clerk

M E M O R A N D U M

AGENDA NO. 4(a)

TO: Paradise Planning Commission

FROM: Susan Hartman, Community Development/Planning Director

SUBJECT: Continued Public Hearing – **Anderson Brothers Corporation Temporary Use Permit (PL19-0383) Application** to allow a proposed temporary “Log Storage & Processing Yard” land use facility/operation

DATE: April 14, 2020

IMPORTANT NOTE: Due to less than a Quorum present, and pursuant to Government Code section 54955, the regular Planning Commission meeting scheduled for March 17, 2020 was adjourned to **April 21, 2020** at 6:00 pm in the Town of Paradise Council Chambers, 5555 Skyway, Paradise, CA/. 95969. In addition, and pursuant to Government Code section 54955.1, the noticed public hearing for this agenda item was ordered continued to the regular **April 21, 2020** Planning Commission meeting.

BRIEF PROJECT DESCRIPTION:

Pursuant to Paradise Municipal Code Chapter 17.32 [Temporary Use Regulations] and the provisions of Section 8 of Town Urgency Ordinance #590 relating to the removal of fire damaged debris from private property following the Camp Fire, the project applicant is proposing to establish a temporary (7-8 months) “Log Storage & Processing Yard” land use facility/operation associated with the post Camp Fire restoration activities. Temporary uses include contractor’s offices, construction storage yard, temporary buildings, construction equipment and vehicle parking and services, wood storage and processing facility. The land use will include delivery of wood materials from private properties and the Private Hazard Tree Program (**not to include the Government Hazard Tree Removal Program materials**), onsite storage/processing and shipment of wood materials from the site. The project properties combine to encompass a 41.3-acre area with portions zoned Community Commercial, Agricultural Residential 1-acre minimum, and Rural Residential 2/3-acre minimum located adjoining and primarily due south of 4716 thru 4724 Skyway, Paradise, AP Nos. 051-240-011, 012 & 051-230-047, 054, & 055.

TOWN OF PARADISE URGENCY ORDINANCE #590 PROVISIONS:

Per Section 8 of Urgency Ordinance #590: a) the maximum potential number of Temporary Log Storage Yards that may be established in the incorporated area of the Town of Paradise is capped at five (5) sites; b) a Temporary Log Storage Yard shall only be allowed subject to town approval and issuance of a temporary use permit for land areas within the Industrial Services zone,

Community Commercial zone, Community Facility and Community Services zones, Agricultural Residential zones, Rural Residential zones and the Multiple Family Residential zone; and c) all Temporary Log Storage Yards shall comply with, at minimum, nineteen (19) standards that include, but are not limited to addressing the following subjects: application requirements, detailed and “to scale” site plan required, siting criteria, minimum project site land area size of five (5) acres, approved access, on-site roads, property line setbacks and defensible space requirements, biological resources assessment and protection, Paradise Fire Department/Cal-Fire standards, Butte County Environmental Health standards, Town Public Works Department standards, water quality and erosion control requirements, air quality and dust control requirements and plans, storage or processing of fire debris prohibited, noise standards, outdoor lighting, project site reclamation/restoration, project performance guarantee, electricity and electrical equipment, and additional requirements.

Additionally, the provisions of Section 8 of the Urgency Ordinance require and/or stipulate: a) at least ten days (10) **prior to** the intended town issuance of a temporary use permit, the Paradise Community Development Department must provide a mailed notice to property owners within 1,200 feet of the proposed project property line boundaries; b) the temporary use permit shall be issued without a formal hearing, as is the procedure for all temporary use permits, unless one is requested by either the applicant or other affected persons ; c) if a hearing is requested, it shall be scheduled for the next available Planning Commission meeting and the Planning Commission shall hear the request; d) the Planning Commission may impose project conditions and requirements in addition to the standards set forth in the Urgency Ordinance, or may deny the temporary use permit, to mitigate impacts to uses on surrounding properties; and e) unless appealed to the Town Council within seven (7) calendar days of the Planning Commission action, the decision of the Planning Commission shall become final.

DISCUSSION:

Planning staff, and the Town Attorney have determined, that the proposed temporary land use project, particularly as recommended to be conditioned, is statutorily exempt from environmental review pursuant to Public Resources Code Section 21080(b)(3) and Section 15269 (Emergency Project) of the California Environmental Quality Act Guidelines. This environmental determination is applicable because the proposed project is directly linked to and accommodates the necessary emergency removal and process of fire damaged trees and vegetation that pose an imminent danger to the public’s health and safety within the Town of Paradise that was impacted by the Camp Fire. **[Note: A “State of Emergency” has been proclaimed by Governor Newsom as well as the Town Council to apply to the disaster-stricken area of the Town of Paradise affected by the Camp Fire. Moreover, as of this date each of the proclaimed emergency status have not been rescinded.]**

The Temporary Use Permit project application that was submitted and resubmitted with additional project details after initially being deemed “incomplete” for processing has been thoroughly evaluated by town staff and staff of various local and state agencies [ex. Cal-Fire, PID,

Butte County Air Quality Management District, State Fish & Wildlife, Butte County Public Health, Environmental Health Division, Town Engineer, etc.]. Collectively, and based upon all project evaluations received, the town staff has determined the proposed temporary (7-8 months) **“Log Storage & Processing Yard”** project application 1) includes all the required application requirements of Town Urgency Ordinance #590; 2) addresses all the applicable required project standards of the Urgency Ordinance; and as recommended to be conditioned appears to be eligible for Town approval and issuance of the Temporary Use Permit.

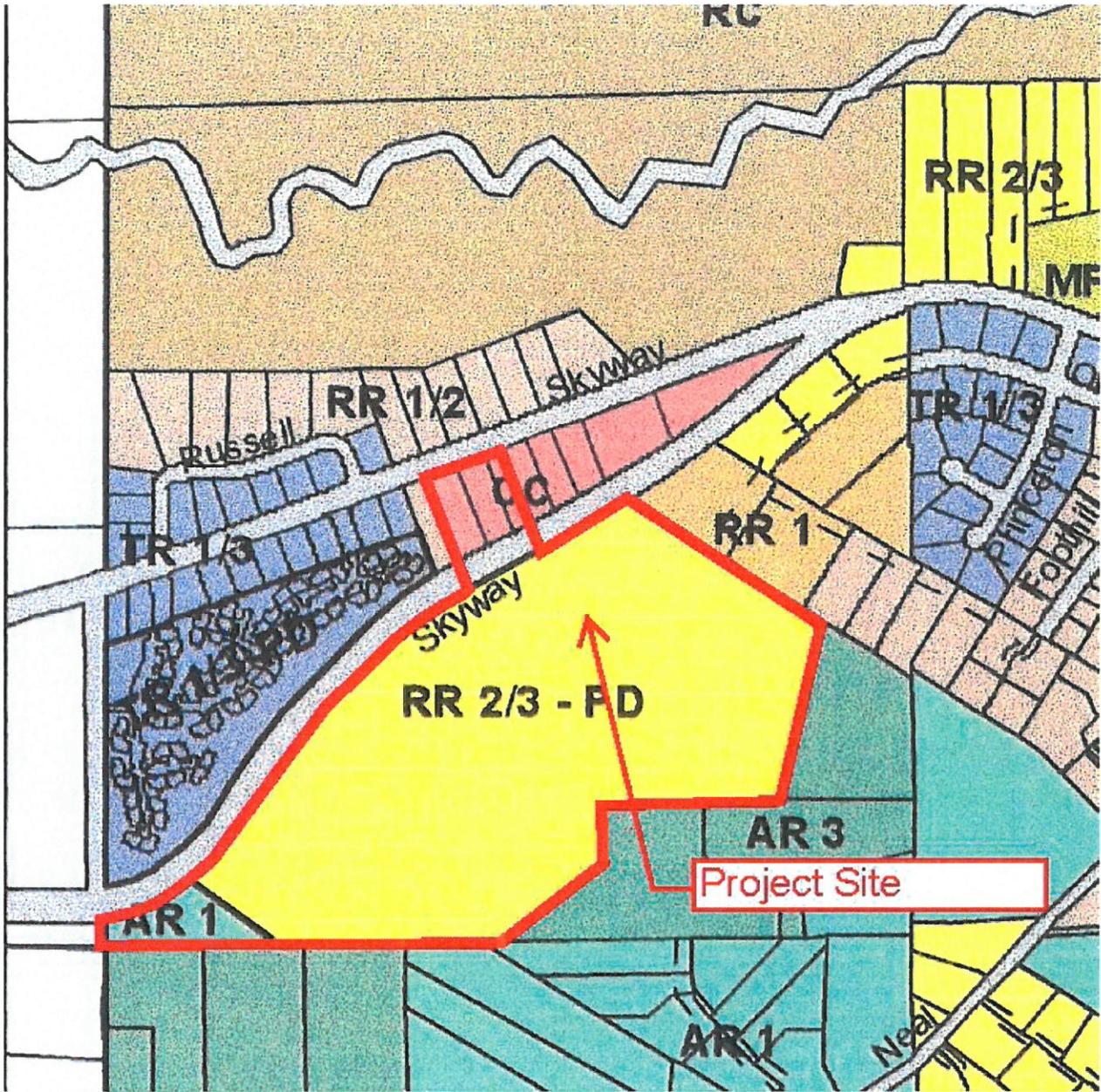
Town planning staff generated a “Notice of Pending Temporary Use Permit Issuance” [**copy attached**] for the project application and mailed it ten days prior to the intended permit issuance date to property owners within 1,200 feet of the project property line boundaries. Subsequently, the Community Development Director received written requests for a formal project hearing from some of the potentially affected property owners. Thus, in accordance with the provisions of Section 8 of Town Urgency Ordinance #590, this matter has been scheduled for public hearing by the Planning Commission.

COMMISSION ACTION REQUESTED:

Please be prepared to discuss the proposed temporary (7-8 months) **“Log Storage & Processing Yard”** with staff, other Commissioners, the project applicant and the public during the required noticed public hearing. At the conclusion of the public hearing, staff’s recommendation is for the Planning Commission to render town approval and issuance of a Temporary Use Permit for the project application based on and subject to the findings and conditions embodied within the **attached Temporary Use Permit document**. If deemed necessary by a majority consensus of Planning Commissioners present, staff will be prepared to discuss and make possible changes or additions to the text of the attached and proposed Temporary Use Permit document prior to Planning Commission proposed project decision action.

LIST OF ATTACHMENTS: TEMPORARY USE PERMIT[PL19-00383] APPLICATION

1. Project site vicinity map.
2. Copy of published and mailed notice of the **March 17, 2020** public hearing.
3. Mailing list of property owners and agencies notified of the Planning Commission public hearing.
4. Copy of mailed “Notice of Pending Temporary Use Permit Issuance”.
5. Copy of Notice of Exemption dated February 24, 2020.
6. E-mail comments received from Butte County Environmental Health Registered Environmental Health Specialist, Kim Haas, dated April 2, 2020.
7. E-mail comments received from Dept of Fish & Wildlife Senior Environmental Scientist, Kelsey Vella, dated February 19, 2020.
8. Comments received from Town Engineer, Marc Mattox, dated February 18, 2020.
9. Comments received from Onsite Sanitary Official, Bob Larson, dated February 18, 2020.
10. Comments received from Police Chief, Eric Reinbold, dated February 10, 2020.
11. Comments received from Fire Chief, John Messina, dated February 10, 2020.
12. Comments received from Fire Prevention Inspector II, Chris Rainey, dated January 9, 2020.
13. Comments received from Butte County Air Quality Management District Senior Air Quality Planner, Jason Mandly, dated January 6, 2020.
14. Written comments received from the public.
15. Application materials for the Anderson Brothers Corporation temporary “Log Storage & Processing Yard” project.
16. Biological Resource Assessment completed by Galloway Enterprises, January 2020.
17. Copy of proposed conditionally approved Temporary Use Permit document for the Anderson “**Log Storage & Processing Yard**” temporary land use project.



APPLICANT: Dave Anderson

OWNER: Anderson Brothers Corp.

Due South of 4716-4724 Skyway

PROJECT DESCRIPTION:

Proposed temporary (9-10 months) "Log Storage & Processing Yard" land use on community commercial, agricultural residential, and rural residential zoned properties. The site is to be served with temporary portable restrooms, etc.

ZONING: RR 2/3, AR-1, & C-C

GENERAL PLAN: RR, AR, TC

FILE NO. PL19-00383

ASSESSOR PARCEL NOS. 051-230-047, 054, 055 & 051-240-011, 012

MEETING DATE: March 17, 2020

NOTICE OF PUBLIC HEARING: PARADISE PLANNING COMMISSION

NOTICE IS HEREBY GIVEN by the Planning Commission that a public hearing will be held on **Tuesday, March 17, 2020 at 6:00 p.m.** in the Town Hall Council Chambers, 5555 Skyway, Paradise, CA, regarding the following project:

- a. Item to be determined exempt from environmental review subject to CEQA Guidelines Section 15269

ANDERSON BROTHERS CORP. TEMPORARY USE PERMIT (PL19-00383) APPLICATION: Planning Commission consideration of a proposed temporary (9-10 months) “Log Storage & Processing Yard” land use facility/operation associated with the post Camp Fire restoration activities. Temporary uses include contractor’s offices, construction storage yard, temporary buildings, construction equipment and vehicle parking and services, wood storage and processing facility. Land use will include delivery of wood materials from private properties and the Private Hazard Tree Program **(not to include the Government Hazard Tree Removal Program materials)**, onsite storage/processing and shipment of wood materials from the site. Project properties combine to encompass a 41.3-acre area zoned Community Commercial, Agricultural Residential 1-acre minimum, and Rural Residential 2/3-acre minimum located at, and adjacent to, 4716-4724 Skyway, Paradise, AP Nos. 051-240-011, 012 & 051-230-047, 054, & 055.

The project file is available for public inspection at the Development Services Department, Town of Paradise, Town Hall. If you challenge this project in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Town Planning Director at, or prior to, the public hearing. For further information please contact the Development Services Department at (530) 872-6291 x114.

SUSAN HARTMAN
Planning Director



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Paradise Ridge Chamber of
Commerce
6161 Clark Road Ste. 1
Paradise, CA 95969

Paradise Board of Realtors
6178 Center Street
Paradise, CA 95969

Butte County Planning
Courier

Paradise Cemetery District
980 Elliott Road
Paradise, CA 95969

Butte Co. Air Quality Mgmt. Dist.
629 Entler Ave., Suite 15
Chico, CA 95928

Butte Environmental Council
313 Walnut St., Ste. 140
Chico, CA 95928

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Laird Oelrichs, Land Agent
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6013 MORGAN PL
LOOMIS CA 95650

051-450-044-000
MARJAMA FAMILY PARTNERS LP
6013 MORGAN PL
LOOMIS CA 95650

051-450-045-000
MARJAMA FAMILY PARTNERS LP
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LOOMIS CA 95650

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MARJAMA FAMILY PARTNERS LP
6013 MORGAN PL
LOOMIS CA 95650

051-450-099-000

055-020-006-000
PERKINS TODD A & CAROL LYNN
P O BOX 1129
DURHAM CA 95938

055-020-099-000
EBELING ROBERT W & ANNWILLIS D JT
PO BOX 1662
PARADISE CA 95967

055-030-002-000
MOUNT WILLIAM R
P O BOX 1291
PARADISE CA 95967

055-030-003-000
KOPSA RODNEY R REVOCABLE TRUST
C/O KOPSA RODNEY R TRUSTEE
1765 SPARKS DR
PARADISE CA 95969

055-030-004-000
PETERSON FAMILY TRUST
C/O PETERSON CARL H & MARY T
3793 NEAL ROAD
PARADISE CA 95969

055-030-019-000
KONRAD FRANK & Z ROSA JT
12957 HOMERIDGE LN
CHINO HILLS CA 91709

055-030-022-000
KONRAD FRANK ETAL
HYPES THERESIA
12957 HOMERIDGE LN
CHINO HILLS CA 91709

055-030-023-000
KONRAD FRANK & ROSA TRUST
C/O KONRAD FRANK & ROSA TRUSTEES
12957 HOMERIDGE LN
CHINO HILLS CA 91709

055-030-026-000
MOUNT WILLIAM R
PO BOX 1291
PARADISE CA 95967

055-030-041-000
NEGLE TIMOTHY JOHN
136 COAST RANGE LN
PARADISE CA 95969

055-030-043-000
SWITZER CHARLES D & DENISE M
145 JADE LN
PARADISE CA 95969



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CHICO CA 95926

055-540-018-000
HERRERA NICK & ADESSA
18 TUSCAN DR
PARADISE CA 95969

055-540-060-000
BLUE OAK TERRACE OWNERS ASSN
NICK HERRERA
18 TUSCAN DR
PARADISE CA 95969

051-260-004-000
NONNEMAN TOM E & PATRICIA A FAMILY
TRUST C/O NONNEMAN TOM E & PATRICIA
A TRUSTEES
14 PATRICK CT
OROVILLE CA 95965

051-230-004-000
MURPHY MARGARET
11886 LAKE WILDWOOD DR
PENN VALLEY CA 95946

051-230-043-000
LEONARD TRUST
C/O LEONARD OSCAR I & IDA D TRUSTEES
3900 KITE WAY
ANTIOCH CA 94509

051-260-014-000
COON JAMES ALLEN & DEENA MARIE
HAYES
205 HAGENRIDGE RD
CHICO CA 95973

051-260-032-000
CONACHY BEVERLY FAMILY TRUST
C/O CONACHY BEVERLY & CONACY
MICHAEL TRUSTEES
770 ROSE LN
HEALDSBURG CA 95448

051-230-005-000
ALDRED FRED M & DEBRA D
1692 MANGROVE #157
CHICO CA 95926

051-230-011-000
DIDUCA BENEDICT C
20 DECLARATION DR #200
CHICO CA 95973

055-030-055-000
KASZA ELIZABETH J & BUSTAMANTE
RUDY N
146 JAY BIRD LN
PARADISE CA 95969

055-540-034-000
CAMUSI WILLIAM PAUL III
PO BOX 3199
CHICO CA 95927

055-540-099-000
BLUE OAK TERRACE OWNERS ASSN
C/O FRANK NICHOLS
3408 WHITE OAK DRIVE
COTTONWOOD CA 96022

051-240-024-000
MOORE STEVEN & JEANINE
6265 PINE NEEDLE LN
PLACERVILLE CA 95667

051-230-010-000
BRIGGS FAMILY TRUST
C/O BRIGGS JEREMIAH A & DEBORAH M
TRUSTEES
1975 BRUCE RD #142
CHICO CA 95928

051-240-026-000
GREENWELL LAURIE L
854 COIT TOWER WAY
CHICO CA 95928

051-260-020-000
HOLLAND LARRY & MICHELE
PO BOX 5050
CHICO CA 95927

055-540-036-000
LEDFORD FAMILY TRUST
C/O LEDFORD AL & ELVINA TRUSTEES
1836 BROADWAY ST
CHICO CA 95928

051-230-007-000
MILEY GREGG E
22049 HATCHER DR
COTTONWOOD CA 96022

051-230-012-000
BOCKUS TRINITY
11 B WILLIAMSBURG LN
CHICO CA 95926

055-030-056-000
BUSTAMANTE RUDY & KASZA
ELIZABETH
441 SUNBURST DR
PARADISE CA 95969

055-540-035-000
LEDFORD FAMILY TRUST
C/O LEDFORD ALRED L & ELVINA TRUSTEES
1836 BROADWAY ST
CHICO CA 95928

051-230-042-000
HOWARD FAMILY TRUST
C/O HOWARD RICHARD B & JOHNSON
SHARON F CO-TRS
1891 BOARDWALK DR
MARYSVILLE CA 95901

051-260-011-000
MADSEN AAGE & HARRIET G JT
20 SKIPPER CT
OROVILLE CA 95966

051-230-020-000
MELINE SHARON L TRUST
C/O MELINE SHARON TRUSTEE
123 HENSHAW AVE SPC 503
CHICO CA 95973

051-250-083-000
LOVE BENJAMIN S & KIMBERLY D
1849 MANGROVE AVE
CHICO CA 95926

051-260-029-000
GUERRA LEONARDO M & KIMBERLY
5888 COLORADO RD
MARIPOSA CA 95338

051-230-009-000
JONES SONDRRA M LIVING TRUST
C/O JONES SONDRRA M TRUSTEE
3562 LONG DR
MINDEN NV 89423

051-230-008-000
BEAN ROBERT LOUIS
10 A WILLIAMSBURG LN
CHICO CA 95926

051-230-015-000
SWAGERTY HELEN & TODD
1626 QUAIL CIR
ROSEVILLE CA 95661



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GREER MICHAEL F & SHANNON L
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051-230-019-000
MCDONALD THERESA ANN
4851 KOKOMO DR APT 6212
SACRAMENTO CA 95835

051-230-023-000
EQUITY TRUST COMPANY CUSTODIAN
FBO JERRY M RYCHTER
1030 HOLBEN AVE
CHICO CA 95926

051-230-026-000
MCDANIEL JAMES W & BONNY E
701 E LASSEN SPC 232
CHICO CA 95973

051-230-030-000
BOUDRO-BAKER REVOCABLE TRUST
C/O BOUDRO-BAKER DONNA ANN TRUSTEE
791 COUNTY RD F
WILLOWS CA 95988

051-230-039-000
SMITH WILLIAM
11 PREMIER CT
CHICO CA 95928

051-230-053-000
AIREHART BRIAN & RACHELLE
4709 SKYWAY
PARADISE CA 95969

051-240-025-000
PERIAT VIRGINIA J
2770 SIERRA LADERA LN
CHICO CA 95928

051-250-140-000
BROWN REVOCABLE TRUST
C/O BROWN DAVID W & MARY ALICE
1320 BUTTE AVE
OROVILLE CA 95965

051-260-010-000
HARRIS MICHELE Z LIVING TRUST
C/O HARRIS MICHELE Z & BRATTHAUER
LISA TRUSTEES
198 CALLAHAN LN
WINDSOR CA 95492

051-230-017-000
CRONISTER JOHN D
4615 SKYWAY
PARADISE CA 95969

051-230-021-000
ORTIZ JOHN CHARLES
3006 TOP HAND CT
CHICO CA 95973

051-230-024-000
HEARD WALTER ARTIS
430 OAKVALE AVE
OROVILLE CA 95966

051-230-027-000
THOMAS GARY D
P O BOX 7884
CHICO CA 95927

051-230-031-000
CORRON MARGARET K
2586 E 20TH ST
CHICO CA 95928

051-230-050-000
BEAN ROBERT L
10 A WILLIAMSBURG
CHICO CA 95926

051-230-060-000
YODER DEBORAH ANN
C/O HONEYMAN MAYA
38 REGAL WAY
OROVILLE CA 95966

051-240-028-000
COSTELLO TRUST
C/O COSTELLO JOHN & GAIL TRUSTEES
1110 ARBUTUS AVE
CHICO CA 95926

051-260-005-000
HOLNBACH FORREST W & CAROL
WINSTEAD
PO BOX 2020
PARADISE CA 95967

051-260-012-000
THOMAS AL & PATRICIA BURKE
7 HEARTWOOD CT
CHICO CA 95928

051-230-018-000
MAXEY MARC EUGENE & MARIAN
WINIFRED
725 HOLLISTER DR
WOODLAND CA 95695

051-230-022-000
GARDNER RICHARD PATRICK
3310 19TH ST #303
SAN FRANCISCO CA 94110

051-230-025-000
RICKARDS FAMILY TRUST
C/O RICKARDS JAMES S & WENDY
6013 MORGAN PL
LOOMIS CA 95650

051-230-029-000
ETCHISON KEVIN R & PATRICIA A
PO BOX 6322
CHICO CA 95926

051-230-034-000
PAYNE COLBY & BRITTANY E
235 W LASSEN AVE #2
CHICO CA 95973

051-230-052-000
BELLEFEUILLE REVOCABLE INT VIV TRUST
ETAL C/O BELLEFEUILLE PAUL & MARY
TRUSTEES
496 ENTLER AVE
CHICO CA 95928
051-240-023-000
PARKER CONNIE
2762 WHITE AVE
CHICO CA 95973

051-250-138-000
BEDSAUL KENNETH L & KAREN A
5520 JANINE WAY
CORNING CA 96021

051-260-008-000
ALLDREDGE FAMILY TRUST
C/O ALLDREDGE KATHLEEN A TRUSTEE
2327 SHENANDOAH DR
ANDERSON CA 96007

051-260-015-000
ROBISON FAMILY TRUST
C/O ROBISON DEBORA A TRUSTEE
1518 SHERMAN AVE
CHICO CA 95926



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MANGOLD ISAAH & SUTHERLAND-
MANGOLD LAURA
12534 WILDER RD
RED BLUFF CA 96080

051-260-019-000
MANGOLD FAMILY TRUST
C/O MANGOLD ISSAC & ELIZABETH
12534 WILDER RD
RED BLUFF CA 96080

051-260-028-000
ETTER LAWRENCE H & SHEILA F
5178 ROYAL OAKS DR
OROVILLE CA 95966

051-260-031-000
DURAN FAMILY TRUST
C/O DURAN TONYA LEE TRUSTEE
30 PORCHLIGHT CT
CHICO CA 95973

051-250-092-000
RAINEY MARIE E TRUST ESTATE
C/O HODGES LOUISE M SUCC TRUSTEE
5786 S RUTH DR
FORT MOHAVE AZ 86426

051-250-104-000
GREITZER LAURI
389 CONNORS CT STE C
CHICO CA 95926

055-540-017-000
HERRERA RENALDO N & ADESSA M
12465 INTERMOUNTAIN RD
REDDING CA 96003

051-260-009-000
GEE TRAVIS T
102 CORNWALL PL
CHICO CA 95973

055-020-002-000
LEE LINDA M & EARL RICHARD
PO BOX 1535
MAGALIA CA 95954

055-020-003-000
DIETZ DENNIS J
P O BOX 7864
CHICO CA 95927

055-020-083-000
DENOFRIO MICHAEL W & ALLISON I
PO BOX 1041
CHICO CA 95927

055-030-015-000
LOWE JAMES & KORISSA FAMILY TRUST
C/O LOWE JAMES E & KORRISA J
7020 COUNTY RD 15
ORLAND CA 95963

055-030-034-000
HADDEN JENNY MAY & TRAVIS G
100 LAKE VIEW DR #98
RED BLUFF CA 96080

055-030-035-000
COCKRELL JASON WAYNE & STEPHANIE
58 COBBLESTONE DR APT A
CHICO CA 95928

055-030-040-000
BURCKHARDT STEPHEN G &
KATHERINE E
9496 LOTT RD
DURHAM CA 95938

055-030-044-000
LEERHUBER ROBERT A REVOCABLE
TRUST ETAL
167 STONINGTON WAY
FOLSOM CA 95630

055-030-045-000
ALLEMANDI FAMILY TRUST
C/O ALLEMANDI STEVEN J & JANELLE
GENGE TRUSTEES
920 CHELAN DR
SUNNYVALE CA 94087

055-030-048-000
NYSTROM MONTE D & ROSELIE L
3555 SHADOWTREE LN
CHICO CA 95928

055-030-049-000
CHAVEZ JOSEPH & JENNIFER
670 CRIMSON CT
CHICO CA 95973

055-030-050-000
HARTLEY REV I V TRUST
925 COIT TOWER WAY
CHICO CA 95928

055-030-052-000
HAPP WILLIAM R
10205 PINGREE RD
GRASS VALLEY CA 95949

055-030-053-000
HAPP JAMIE L
340 MESA VERDE CT
CHICO CA 95973

055-540-019-000
PLANTS FAMILY TRUST
C/O PLANTS RONALD B & DENISE M
TRUSTEES
3474 PADRE LN
CHICO CA 95973

051-230-040-000
AMY FAMILY TRUST
AMY IVAN C & SANDRA J TRUSTEES
PO BOX 142
VINA CA 96092

051-230-054-000
ANDERSON BROTHERS CORPORATION
13636 ANDERSON BROTHERS DR
CHICO CA 95973

051-230-055-000
ANDERSON BROTHERS CORPORATION
13636 ANDERSON BROTHERS DR
CHICO CA 95973

051-260-021-000
STOKMANIS REVOCABLE INTER VIVOS
TRUST C/O STOKMANIS ERIC & KATHY
PO BOX 270895
SUSANVILLE CA 96127

051-250-014-000
CORBETT SAMUEL L & NANCY A
12748 ROUGH AND READY RD
ROUGH AND READY CA 95975

051-230-038-000
PRICE DENNIS D & MAYRA J
5 DORSET CT
CHICO CA 95973



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EDGAR WILLIAM HOWARD
P O BOX 33954
JUNEAU AK 99803

055-030-038-000
MAGEE RICHARD & KAREN JR FAMILY
TRUST
5930 CAMINO LN APT 12
PARADISE CA 95969

051-250-103-000
MAZZOCCO BERT F
331 SPYGLASS DR
RIO VISTA CA 94571

055-030-051-000
VERMILLION LARRY D
727 PEBBLE CREEK ST
SUTHERLIN OR 97479

051-260-046-000
BOLIN JOSIAH
6475 DANIKA CT
PARADISE CA 95969

055-020-022-000
TURNBOW THOMAS L
14799 EAGLERIDGE DR
FOREST RANCH CA 95942

051-260-007-000
PAZ LUIS C GALLEGOS & GALLEGOS
YESENIA ETAL
GALLEGOS SEBASTIAN FLORES
1290 NOTRE DAME BLVD 26
CHICO CA 95928

051-240-017-000
FIORE MARY L REVOCABLE INT VIV TRUST
C/O FIORE MARY L & J ELIZABETH
TRUSTEES
PO BOX 1326
GRIDLEY CA 95948

051-230-044-000
GREENE AARON & STEPHANIE
5021 RUSSELL DR
PARADISE CA 95969

051-230-049-000
BEAN ROBERT L
10 WILLIAMSBURG LN
CHICO CA 95973

**TOWN OF PARADISE
NOTICE OF PENDING TEMPORARY USE PERMIT ISSUANCE**

NOTICE IS HEREBY GIVEN by the Community Development Director, pursuant to item “D” of Section 8 of Town of Paradise Urgency Ordinance #590 regarding the following matter:

- a. **PL19-00383 Anderson Brothers Corp. Temporary Use Permit:** Proposed temporary (9-10 months) “Log Storage & Processing Yard” land use facility/operation associated with the post Camp Fire restoration activities. Temporary uses include contractor’s offices, construction storage yard, temporary buildings, construction equipment and vehicle parking and services, wood storage and processing facility. Temporary access points via the Skyway and site internally will be constructed to appropriate public safety standards. Land use will include delivery of wood materials from private properties and the Private Hazard Tree Program (**not to include the Government Hazard Tree Removal Program materials**), onsite storage/processing and shipment of wood materials from the site. [Note: Project applicant contact: David Anderson, phone: (530) 894-5432, or email: andersonj2@sbcglobal.net]. The Town of Paradise intends to issue a conditionally approved temporary use permit for this proposed land use without a formal hearing not later than **March 10, 2020**, unless a hearing is requested by either the project applicant or other affected person(s).

Intended applicable standards and requirements as conditions of project approval includes, but is not limited to the following:

- (1) Extensive property line and defensible space setbacks; temporary log storage yard site(s) located on relatively flat site areas already disturbed and in a manner to decrease impacts to surrounding properties; detailed public road access and on-site roads, driveways and aisles constructed and maintained as approved by the Town Public Works Dept.; avoidance and setback from wetlands and any endangered/protected plants and animal species.
- (2) Adherence and compliance with all applicable Paradise Fire Department/Cal-Fire standards; Butte County Public Health, Environmental Health Division standards; Town Public Works and State Water Quality Control Board standards related to perimeter stormwater control, water quality and erosion control; Butte County Air Quality Management District regulations (Air Quality and Dust control); Noise; Quiet hours shall be maintained from 7:00 p.m. to 7:00 a.m. seven days a week; a prohibition of storage or processing of fire debris from the Camp Fire Consolidated Debris Removal Program.
- (3) Project’s approved “Material Handling & Fire Prevention Plan” shall be established and implemented satisfactory to Town of Paradise Fire Department/Cal-Fire.
- (4) Satisfactory approval and implementation of Project’s “Site Reclamation/Restoration Plan” by the Town Community Development Director.
- (5) Submittal to the Town of Paradise of a “project performance guarantee” in the amount of \$2,000/acre of land disturbed in order to guarantee the proper completion

of any approved work and to ensure that site reclamation is completed to the satisfaction of Town officials.

- (6) Compliance with all applicable "Temporary Log Storage Yard Standards" of Town Urgency Ordinance #590; and any other additional project requirements stipulated by other reviewing agencies.

If Town approved and issued the proposed temporary land use would be in effect between March 17, 2020 and December 31, 2020.

For further information please contact the Development Services Department at (530) 872-6291, extension 114.

SUSAN HARTMAN
Community Development Director

NOTICE OF EXEMPTION

TO: File – [PL19-00383]; AP No. 051-230-047, -054, -055; 051-240-011, & -012

FROM: Town of Paradise, Community Development Department,
Planning Division, 5555 Skyway, Paradise CA 95969

PROJECT TITLE: Anderson Brothers Corp. Temporary Use Permit

PROJECT APPLICANT: Anderson Brothers Corp.

PROJECT LOCATION: Due South/Abutting 4716 thru 4724 Skyway, Paradise, CA.

PROJECT DESCRIPTION: Proposed temporary (9-10 months) “Log Storage & Processing Yard” associated with the post Camp fire restoration activities. Site to be serviced via a temporary contractor’s office, portable restrooms, log storage and processing equipment, etc.

APPROVING PUBLIC AGENCY: Town of Paradise

PERSON OR AGENCY CARRYING OUT PROJECT: Anderson Brothers Corp. [Applicant & Owners]

EXEMPT STATUS:
 General Rule Exemption (Section 15061)
 Ministerial (Section 15268)
 Emergency Project (Section 15269)
 Categorical Exemption
Section _____; Class ____

REASON FOR EXEMPTION: Part of project (hazard tree removal) to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster stricken area in which a state of emergency has been proclaimed by the Governor.

CONTACT PERSON: Susan Hartman, Planning Director
(530) 872-6291

SIGNATURE: 

Planning Director

Date: February 24, 2020

Hartman, Susan

From: Haas, Kim <KHaas@buttecounty.net>
Sent: Thursday, April 2, 2020 4:32 PM
To: Hartman, Susan
Cc: Danz, Doug
Subject: RE: Crossfire Wood Processing Yard Resubmittal
Attachments: Timber Processing Facility Conditions (4-2-20).docx

Good afternoon Susan,

Doug and I have been working with CalRecycle on some of the issues involved around permitting the Timber Processing operations opening in Paradise to process the tree debris. We received an email from CalRecycle this afternoon that the facilities processing the trees for the Hazard Tree Removal Program will not be required to obtain a solid waste handling permit. One of the stipulations for this is that the facilities will be operating under a Conditional Use Permit. In light of this latest information, Butte Co EH would like to revise our comments/ conditions for the use permits (please see attached).

I have also been in communication with DJ Gomez (Crossfire), and will be letting him know that he does not need to apply for a solid waste permit with our Department.

Please let me or Doug know if you have any questions about this email.

Thanks.

Kim Haas

Registered Environmental Health Specialist
[BUTTE COUNTY PUBLIC HEALTH](#)
[202 Mira Loma Drive | Oroville, CA 95965](#)
T: 530-538-5331 | M: 530-693-2267 | F: 530-538-5339

Note: Due to COVID-19, the Environmental Health office is closed to the public at this time.

COVID-19 Call Center: 530-552-3050 Open 8am-5pm everyday

"Nationally Accredited, 09/13/17"

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From: Hartman, Susan <shartman@townofparadise.com>
Sent: Wednesday, March 25, 2020 6:30 PM
To: Haas, Kim <KHaas@buttecounty.net>
Subject: Re: Crossfire Wood Processing Yard Resubmittal

ATTENTION: This message originated from outside **Butte County**. Please exercise judgment before opening attachments, clicking on links, or replying.

Thank you!

Timber Processing Operations Comments:

Currently the following conditions will apply to the project:

- 1) Operator shall handle slash/ chip piles so as to preclude their reaching an internal temperature of 122° F or greater.
- 2) Operation shall be conducted to minimize odors, dust and litter migrating off the site.
- 3) For sanitation purposes there shall be a minimum of one (1) portable toilet and one (1) handwashing station at the facility for employee use. The portable toilet shall be routinely serviced by a licensed service provider.
- 4) If water is provided for human consumption, from an on-site well or a storage tank, for twenty-five (25) or more people/day the facility operator shall contact the Butte County Environmental Health Division for public water system permitting requirements. If bottled water is provided there are no such requirements.
- 5) The storage of any hazardous material at or above state-defined thresholds shall require the approval of a Hazardous Material Business Plan by the Environmental Health Division of the Department of Public Health.
- 6) Butte County Environmental Health may conduct site inspections at any time to determine compliance with applicable standards, or in response to a complaint.

Hartman, Susan

From: Vella, Kelsey@Wildlife <Kelsey.Vella@wildlife.ca.gov>
Sent: Wednesday, February 19, 2020 3:09 PM
To: Hartman, Susan
Subject: RE: Tree Processing Facility Use Permit - Town of Paradise

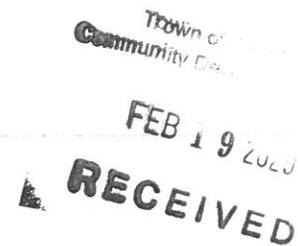
Hi Susan,

Thank you for submitting the revised documents for review. CDFW doesn't have any concerns with the scope of work as it relates to fish and wildlife resources.

Thank you!

Kelsey Vella
916-932-3015

From: Hartman, Susan <shartman@townofparadise.com>
Sent: Monday, February 10, 2020 8:45 AM
To: Vella, Kelsey@Wildlife <Kelsey.Vella@wildlife.ca.gov>
Subject: RE: Tree Processing Facility Use Permit - Town of Paradise



Kelsey,

Attached is the revised and resubmitted application for the temporary log storage yard on lower Skyway for Dave Anderson. The first attachment contains the detailed project description, reclamation plan, fire prevention plan, and revised site plan. The second attachment is the biological report. I just wanted to run these resubmittals by you to see if they change anything regarding your organizations involvement in the project.



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Vella, Kelsey@Wildlife <Kelsey.Vella@wildlife.ca.gov>
Sent: Thursday, January 2, 2020 10:14 AM
To: Hartman, Susan <shartman@townofparadise.com>
Cc: Jacks, Sandra@Wildlife <Sandra.Jacks@wildlife.ca.gov>; Garcia, Jennifer@Wildlife <Jennifer.Garcia@wildlife.ca.gov>
Subject: Tree Processing Facility Use Permit - Town of Paradise

Good morning Susan,

Kursten Sheridan forwarded your email regarding the proposed tree processing facility on Skyway Road in Paradise to our Timberland Conservation Program for review. Thank you for reaching out to the California Department of Fish and Wildlife (CDFW)! I've taken a look at the attached documents and CDFW doesn't have any concerns with the current scope of work as it relates to fish and wildlife resources.

Thank you for your time,

Kelsey Vella
Senior Environmental Scientist (Specialist)
California Department of Fish and Wildlife
1701 Nimbus Road
Rancho Cordova, CA 95670
916-932-3015
Please note my phone number has changed

**TOWN OF PARADISE
DEVELOPMENT SERVICES DEPARTMENT**

DEVELOPMENT REVIEW REQUEST

TO: Fire, Eng., Onsite, Police, PID, BCEH, BCAQMD, Fish & Game
FROM: Susan Hartman, Planning Director *SH*
REQUEST: Review and Comment
DESCRIPTION OF PROJECT: **Revised:** Proposed temporary (9-10 months) "Log Storage & Processing Yard" land use on community commercial, agricultural residential, and rural residential zoned properties. The site is to be served with temporary portable restrooms, etc.
LOCATION Due South of 4716-4724 Skyway, Paradise
AP NOS.: 051-230-047, -054, -055; 051-240-11 & -12
APPLICANT: Anderson Brothers Corp. [Applicant & Owner]
CONTACT PHONE: (530) 894-5432
RETURN DATE REQUESTED: **February 18, 2020**
DATE DISTRIBUTED: February 10, 2020

DOES YOUR AGENCY HAVE THE CAPACITY TO SERVE THIS PROJECT?

YES YES, WITH CONDITIONS NO (EXPLAIN BELOW)

COMMENTS AND/OR RECOMMENDED CONDITIONS:

NO RESPONSE FROM YOUR AGENCY MAY BE CONSTRUED THAT YOUR AGENCY HAS THE ABILITY TO SERVE THIS PROJECT.

PLEASE MAKE A COPY FOR YOUR RECORDS.

Town of Paradise
Community Development Dept

FEB 18 2020

RECEIVED

**TOWN OF PARADISE
DEVELOPMENT SERVICES DEPARTMENT**

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DOES YOUR AGENCY HAVE THE CAPACITY TO SERVE THIS PROJECT?

YES YES, WITH CONDITIONS NO (EXPLAIN BELOW)

COMMENTS AND/OR RECOMMENDED CONDITIONS:
No Conditions
BC 2/18/2020

NO RESPONSE FROM YOUR AGENCY MAY BE CONSTRUED THAT YOUR AGENCY HAS THE ABILITY TO SERVE THIS PROJECT.

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**TOWN OF PARADISE
DEVELOPMENT SERVICES DEPARTMENT**

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AP NOS.: 051-230-047, -054, -055; 051-240-11 & -12

APPLICANT: Anderson Brothers Corp. [Applicant & Owner]

CONTACT PHONE: (530) 894-5432

Town of Paradise
Community Development Dept

RETURN DATE REQUESTED: **February 18, 2020**

FEB 10 2020

DATE DISTRIBUTED: February 10, 2020

RECEIVED

DOES YOUR AGENCY HAVE THE CAPACITY TO SERVE THIS PROJECT?

YES **YES, WITH CONDITIONS** **NO (EXPLAIN BELOW)**

COMMENTS AND/OR RECOMMENDED CONDITIONS:

Discusses TRAFFIC PLAN w/ DAVID ANDERSON 2/10/2020. PD OKAY w/ PLAN AS PRESENTED. DAVID ANDERSON + PD WILL EVALUATE PLAN ONCE PRODUCTION BEGINS + IF NEEDED ADJUSTMENTS WILL BE MADE.

NO RESPONSE FROM YOUR AGENCY MAY BE CONSTRUED THAT YOUR AGENCY HAS THE ABILITY TO SERVE THIS PROJECT.

PLEASE MAKE A COPY FOR YOUR RECORDS.

[Signature]
Eric Reinbold
Chief of Police

Received
Feb. 10th
2020

Hartman, Susan

From: Messina, John@CALFIRE <john.messina@fire.ca.gov>
Sent: Monday, February 10, 2020 3:51 PM
To: Hartman, Susan
Subject: Re: Revised Log Storage Yard - Skyway

Town of Paradise
Community Development Dept

Looks pretty good to me!

John Messina

Assistant Chief - North Division
Butte County Fire/Town of Paradise Fire
CALFIRE - BTU
Cell# 530 329-9891
Office# 530 538-7111

FEB 10 2020

RECEIVED

From: Hartman, Susan <shartman@townofparadise.com>
Sent: Monday, February 10, 2020 8:34 AM
To: Messina, John@CALFIRE <john.messina@fire.ca.gov>
Subject: Revised Log Storage Yard - Skyway

Warning: this message is from an external user and should be treated with caution.
Chief,

Attached is the revised and resubmitted application for the temporary log storage yard on lower Skyway for Dave Anderson. The first attachment contains the detailed project description, reclamation plan, fire prevention plan, and revised site plan. The second attachment is the biological report, if you're interested.



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com



Town of Paradise

PARADISE FIRE & RESCUE

767 Birch Street, Paradise, CA 95969
www.townofparadise.com
(530) 872-6264



Development Review

Project Name: Anderson Brothers Corp. Temp Use Permit
Location: Due South of 4716-4724 Skyway, Paradise
APN: 051-230-047-000, 051-230-054-000, 051-230-055-000, 051-240-011-000 & 051-240-012-000
Applicant: Anderson Brothers Corp. [Applicant & Owner]
Project No. PL19-00383
Date of Plan Review: January 9, 2020
Review conducted by: Chris Rainey, Fire Prevention Inspector

The scope of project: Proposed temporary (9-10 months) “Log Storage & Processing Yard” land use on community commercial, agricultural residential, and rural residential zoned properties. The site is to be served with temporary portable restrooms, etc.

Development review was performed and the following comments were generated:

General:

1. Obtain a Wood Products permit from Town of Paradise Fire Prevention Department.
2. Fire flow from a water source must be within a maximum of 400’ by an approved path of travel. The proposed site is beyond the distance of any street hydrants and to continue would require the installation of additional on site hydrants or other approved type of water supply.
3. Cold decks, logs only, shall not exceed 500 feet in length, 300 feet in width and 20 feet in height. Cold decks shall be separated from adjacent cold decks or other exposures, including vegetation, by not less than 100 feet.
4. Where storage pile configurations could change because of changes in product operations and processing, the access plan shall be submitted for approval when required by the fire code official.
5. Portable fire extinguishers with a minimum rating of 4-A:60-B:C shall be provided on all vehicles and equipment operating on piles and at all processing equipment.
6. All piles must be 100 feet from vegetation.

Storage and Processing of Wood Chips:

1. Storage sites shall be level and on solid ground, elevated soil lifts or other all-weather surface. Sites shall be thoroughly cleaned before transferring wood products to the site.
2. Piles shall not exceed 25 feet in height, 150 feet in width and 250 feet in length.
3. Piles shall be separated from adjacent piles by approved fire apparatus access roads with a minimum unobstructed width of twenty (20) feet wide and a minimum 13'6" vertical clearance.
4. All piles must be 100 feet from vegetation.
5. Static piles shall be monitored by an approved means to measure temperatures within the static piles. Internal pile temperatures shall be monitored and recorded weekly. Such records shall be maintained. An operational plan indicating procedures and schedules for the inspection, monitoring and restricting of excessive internal temperatures in static piles shall be submitted to the fire code official for review and approval.
6. Portable fire extinguishers with a minimum rating of 4-A:60-B:C shall be provided on all vehicles and equipment operating on piles and at all processing equipment.
7. Approved material handling equipment shall be available for moving wood chips, hogged material, wood fines and raw product during fire-fighting operations.
8. The owner or operator shall develop a plan for monitoring, controlling and extinguishing spot fires and submit the plan to the fire code official for review and approval.

Thank you,
Chris Rainey
Fire Prevention Inspector
Town of Paradise
530-872-6291 x304

629 Entler Avenue, Suite 15
Chico, CA 95928

(530) 332-9400
(530) 332-9417 Fax



W. JAMES WAGONER
Air Pollution Control Officer

STEPHEN ERTLE
Assistant Air Pollution Control Officer

January 6, 2020

Susan Hartman, Planning Director
Town of Paradise
5555 Skyway
Paradise, CA 95969

Town of Paradise
Community Development Dept

JAN 06 2020

RECEIVED

Re: Development Review Request: Project Number PL19-00383

Dear Ms. Hartman,

The Butte County Air Quality Management District (District) appreciates the opportunity to comment on the Development Review Request for the project listed above. Based on the information reviewed, the District has the following comments:

1. The proposed project would be subject to District Rule 205—Fugitive Dust Emissions. Requirements include implementing dust control mitigations for operations and active/inactive work areas to prevent visible dust from being airborne off property and implementing track-out control.
2. Portable equipment and engines (rated at 50 HP or greater) may operate at the location for up to 12 consecutive months or seasonally not to exceed 3 months in each of two consecutive years. Authorization may be by registration in the State Portable Equipment Registration Program (PERP) or the local District portable program or, if under the Emergency Declaration, by filing a Form 40 with the State PERP. Operation beyond 12 months and stationary sources require an air quality permit from the District.
3. We understand there will be no burning of vegetative wastes at the site. Any waste burning is subject to the conditions of the CalEPA letter dated November 26, 2019.

If you have any questions or comments, please contact the District at (530) 332-9400.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason Mandly", written over a faint circular stamp.

Jason Mandly
Senior Air Quality Planner

From: [Mr. Clay](#)
To: [Hartman, Susan](#); [Bolin, Greg](#)
Cc: [Hartman, Susan](#); [Volenski, Dina](#); [Farm No 268 Tract No 453](#)
Subject: Proposed Log Site
Date: Sunday, March 15, 2020 8:49:02 PM

Greetings Ms. Hartman and Ms. Volenski,

I am writing in reference to the proposed temporary logging storage and processing yard on Butte County parcels numbers 051-230-047, 054, 055, 051-240-011 and 012 within the town of Paradise. I understand the need for a speedy recovery but not at the expense of others, I expect that the neighbors and the environment will given the utmost respect and consideration under this “emergency”, especially considering there are standing homes with people living in them completely surrounding the location. I expect the Town council and the Planning commission will adhere to the 12/31/20 expiration of the temporary permit. Under no circumstances should the permit be extended or zoning of the property be changed from Residential.

Thank you for your time and consideration,

Clay Carter
530-624-3747
Blue Oaks Terrace resident
127 Tuscan Dr
Paradise, CA

From: [Cheryl Robbins](#)
To: [Volenski, Dina](#); [Hartman, Susan](#); [Bolin, Greg](#); [Zuccolillo, Mike](#)
Subject: RE: Planning Meeting Cancelled
Date: Tuesday, March 17, 2020 5:22:17 PM
Attachments: [Fire Hazards Wood Processing.pdf](#)
[Health Issues, Wood Dust.pdf](#)
[Residential Proximity RX.pdf](#)
[wood toxicity to lungs.pdf](#)

I understand that the meeting on March 17th was cancelled so I'm sending some of the information I was going to present at that meeting. Please distribute this information among all the council members so that it can be discussed when the meeting is re-scheduled.

I'm still VERY concerned about the fire hazards and health issues for those of us within the two mile radius of the proposed wood / log processing operation at Neal and Skyway.

Fire is a real hazard in wood processing operations, so much so that insurance companies consider coverage of such a very it high risk category. OSHA has created a combustibility index in this regard as well.

Hydraulic fluids are a common hazard in pretty much all sawmills, where they are typically used in the cutting, handling, and conveying systems. It is not unusual for a mill to have in excess of 100 pieces of hydraulically operated equipment. Hydraulic reservoirs for this equipment can range from 25-1000 gallons, or more, but are most typically in the range of 100-500 gallons.

If ignited, a hydraulic leak under pressure can literally become a large blow torch with no effective means of fire protection possible. To counter this, the solution is to provide an automatic shutoff for all hydraulic equipment. This can be accomplished by providing heat detection with an interlock to shutoff and depressurize the hydraulic unit on heat detector activation. It is also obvious that sprinkler protection should be installed for any and all areas where hydraulic equipment is located.

While fire is a clear and obvious concern, a less obvious, but potentially more catastrophic concern is a dust explosion. Sawdust is created throughout the milling process, and is handled and moved away from points where it is created, to points where it is stored and collected. This is typically accomplished through the use of drag chains, conveyors, pneumatic handling systems, baghouses, cyclone collectors, etc.

Read more from OSHA here: <https://www.osha.gov/dsg/combustible dust/index.html>

There is peer reviewed evidence for numerous health hazards of this kind of operation when it is situated close to living spaces. Studies have indicated that such operations should not be located within 2 miles of residences. Some of the risks are from the heavy metals aerosolized during the use of saws. Other risks are the actual species of trees contained in the sawdust, posing a severe stressor to those with asthma. Most woods are a nasopharyngeal irritant and causing alveolitis as well as hypersensitivity pneumonitis, two serious lung conditions to which our citizens should not be exposed. I've included a wood species guide which lists the most offensive types of sawdust. In addition, some species are capable of causing respiratory cancers when humans are exposed to the constituents in the air. There are extremely stringent methods outlined by OSHA guidelines including sophisticated suction machines to prevent particles from escaping into the air. There is no evidence that wetting the air around the site

will stop aerosolization of particles.

Thank you in advance for reviewing the attached reference files and documented studies for the issues I have mentioned as these were what I was going to bring to the discussion that was cancelled.

Cheryl Robbins

(530) 990-8645

September 2017: Property Loss Prevention Measures at Sawmills

This article will be limited to sawmills which receive raw logs, cut the logs producing green lumber, kiln dry the stuck lumber, and plane and dress the dry lumber to specified dimensions. Many of the hazards associated with sawmill operations are also found in allied woodworking industries including; plywood mfg., oriented strand board mfg., wood pellet mfg., furniture making and further processing of wood products, etc.

Sawmills typically come in two flavors, hardwood and softwood processing. Although there are some inherent differences between the two, they will not generally be of concern with respect to fire and explosion hazards discussed herein.

Operations

Sawmills receive green logs by truck nearly continuously throughout their operational day. These logs are stacked to form a log deck, which may cover several acres in area, with logs stacked 10 ft. high or more.

From the log deck, raw logs are pulled and automatically checked for inclusion of metals (spikes, nails, or similar) which could damage mill equipment, and sent to the ring de-barker, electronically measured, and then sent on to the sawmill. In the mill the de-barked log is trimmed and cut by a series of saws which are computer controlled to optimize the board ft. of lumber produced from each individual log. Often saws and milling equipment are on elevated platforms connected by conveyors and similar handling equipment.

The cut green lumber is sent to a sorter/stacker where like boards are sorted into bins. The like boards in each bin are stacked together with small wooden between each layer of boards allowing air to circulate around the lumber. Lumber is then placed into a steam heated drying kiln where it resides until the moisture content is reduced to the desired range.

The dry lumber then goes to the Planning Mill where it is surface and edge planed and cut to final dimensions. The dry lumber is stacked, banded, and shipped to the customer.

Hazards and Protection

The most obvious hazard associated with this process is fire. If a structure or a process handles or stores wood or sawdust products, complete sprinkler protection is indicated.

While green logs stored in a log deck can and will burn, they are generally not a major fire hazard, and it is not possible to install fire sprinkler protection above a log deck, or many other outdoor structures associated with a mill. Good practices here are to provide fire hydrants on 200 - 300 ft. spacing around the log deck, and to maintain well defined aisles for vehicle access within the log deck areas. This will allow for manual firefighting and ready access to all areas of the log deck. The provision of fire hydrants should also be extended throughout all areas of the mill yard to permit ready access for manual firefighting.

Hydraulic fluids are a common hazard in pretty much all sawmills, where they are typically used in the cutting, handling, and conveying systems. It is not unusual for a mill to have in excess of 100 pieces of hydraulically operated equipment. Hydraulic reservoirs for this equipment can range from 25-1000 gallons, or more, but are most typically in the range of 100-500 gallons.

If ignited, a hydraulic leak under pressure can literally become a large blow torch with no effective means of fire protection possible. To counter this, the solution is to provide an automatic shutoff for all hydraulic equipment. This can be accomplished by providing heat detection with an interlock to shutoff and depressurize the hydraulic unit on heat detector activation. It is also obvious that sprinkler protection should be installed for any and all areas where hydraulic equipment is located.

While fire is a clear and obvious concern, a less obvious, but potentially more catastrophic concern is a dust explosion. Sawdust is created throughout the milling process, and is handled and moved away from points where it is created, to

points where it is stored and collected. This is typically accomplished through the use of drag chains, conveyors, pneumatic handling systems, baghouses, cyclone collectors, etc.

Sawdust in and of itself is not explosive, but when it is dispersed as a cloud within the air, it can become devastatingly explosive. The air suspension of sawdust is an inherent condition in much of the dust handling systems such as baghouses, cyclone collectors and pneumatic ductwork, and thus this equipment is often inherently prone to dust explosion. There are two conditions which are very significant in the potential for ignition and the energy output of a dust explosion: these are dust particle size, and dust moisture content. In both cases, less is more, i.e. the smaller the particle size, the less energy is required to ignite and the more explosive force will be generated if ignited. The same is true for % moisture content with dusts having less moisture content are more susceptible to ignition and having higher explosive forces generated. Thus the highest dust hazards in most plants are found at the planer mill building and associated equipment where kiln dried lumber is handled.

The most accurate way to determine volatility of particular sawdust products is to perform testing through a qualified 3rd party testing laboratory.

There are many ways to reduce or eliminate dust explosion hazard potentials. These can include high speed spark detection and water spray. These systems can detect a spark and provide quenching waterspray within milliseconds prior to the spark entering a zone where an explosive dust concentration is present. Explosion suppression systems can also detect a spark and release chemical agents that will terminate an incipient explosion within a piece of equipment where an explosive dust concentration is present. Abort gates and venting systems are also important and can reduce explosive pressures before that can damage equipment.

Housekeeping is probably the number one issue and safety factor within sawmills. Good housekeeping practices equate to greatly reduced risk of fire or explosion. The most common housekeeping issue is sawdust which escapes the equipment. The presence of sawdust throughout a building, particularly on structural elements such as beams or girders can result in devastating explosions. A common occurrence is for a small initial explosion to occur within a localized piece of equipment, this minor shock is then strong enough to shake the building thus releasing a great deal more dust into an air suspension. This much larger amount of dust now in suspension can allow for a very large secondary explosion involving the entire building. Thus housekeeping, particularly for elevated surfaces, is critical. Never use compressed air to blow down dusts, as this creates the hazard itself. An explosion proof vacuum system should be used instead.

Although sawdust in the green mill areas are less of a concern from an explosion standpoint, they are very much a concern from a fire standpoint. Over time dust will settle onto building structural members where they will dry and harden causing the building structure to become a combustible fire hazard. This provides an avenue for very rapid firespread and development where even sprinkler protection may be ineffective.

Wherever possible buildings should be designed to eliminate horizontal surfaces (beams, girders, cable trays, conduits, electrical panels etc.) where dust may collect. This can be done by boxing beams and girders, and providing smooth ceilings. With pneumatic dust handling equipment, the preference is to design equipment to operate under negative pressure (vacuum) such that any leakage will not cause dispersion of dust into an area. Where dusts do collect, cleaning practices should keep dust deposits to less than 1/16 in. on any and all surfaces. In older and less well designed plants this may mean continuous cleaning throughout the operating shift.

Another housekeeping concern at sawmills is hydraulic oil leakage. With a great number of hydraulically operated equipment there are bound to be leaks. If left unattended these often result in several inch deep pools of hydraulic oil caught in the drip pans, which typically are fitted below hydraulic equipment. A strong program of inspection, maintenance, and cleaning is required to keep ahead of this issue.

There are many other hazards associated with sawmill operations, however the ones above are of primary concern.

Risk Logic is very experienced in the Property Loss Prevention measures at a Sawmill facility. Please reach out to us if you have any questions

ADDITIONAL READING RESOURCES

OSHA Combustible Dust website: <https://www.osha.gov/dsg/combustibledust/index.html>

FM Data Sheet 7-76 - Prevention and Mitigation of Combustible Dust Explosions and Fire
 NFPA 654 - Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible
 Particulate Solids
 NFPA 664 - Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities
 NFPA 499 - Classification of Combustible Dust
 NFPA 68 - Deflagration Venting Systems
 NFPA 69 - Explosion Prevention Systems
 NFPA 91 - Exhaust Systems

Creation of Wood Dust during Wood Processing: Size Analysis, Dust Separation, and Occupational Health

Eva Mračková,^a Ľuboš Krišťák,^b Martin Kučerka,^c Milan Gaff,^{d,*} and Milada Gajtanská^b

Mechanical separators and fabric filters are being used to remove airborne fine particles generated during the processing and handling of wood. Such particles might have a harmful effect on employee health, not only in small-but also in large-scale wood processing facilities. The amount of wood dust and its dispersion conditions vary according to geometric boundary conditions. Thus, the dispersion conditions could be changed by changing the linear size of the particles. Moreover, the smaller the particles are, the more harmful they can be. It is necessary to become familiar with properties, from a health point of view, of wood dust generated from processing. Wood dust has to be sucked away from the processing area. The fractional separation efficiency of wood dust can be improved using exhaust and filtering devices. Filtration efficiency depends on moisture content, particle size, and device performance. Because of the carcinogenicity of wood dust, the concentration of wood dust in air has to be monitored regularly. Based on the results hereof, a conclusion can be made that both mechanical separators of types SEA and SEB as well as the fabric filters with FINET PES 1 textile are suitable for the separation of wet saw dust from all types of wooden waste produced within the process.

Keywords: Wood dust; Job performance; Employee health; Wood dust carcinogenicity; Fractions of wood dust

Contact information: a: Department of Fire Protection, Technical University in Zvolen, T. G. Masaryka 24, Zvolen, 96053, Slovakia; b: Department of Physics, Electrical Engineering, and Applied Mechanics, Technical University in Zvolen, T. G. Masaryka 24, Zvolen, 96053, Slovakia; c: Department of Technology, Faculty of Natural Sciences, Matej Bel University in Banská Bystrica 97401, Slovakia; d: Department of Wood Processing, Czech University of Life Sciences in Prague, Kamýcká 1176, Praha 6 - Suchbátka, 16521, Czech Republic; *Corresponding author: gaffmilan@gmail.com

INTRODUCTION

Wood dust represents one of the dangers of processing wood mass both in small enterprises as well as in large wood processing plants. It is generally understood that the operation and handling of wood generates fine particles that are more hazardous the smaller they become (*i.e.*, when the surface area of the particles is greater relative to volume).

Given that the biological properties, in addition to their physical and chemical properties of substances, have essential characteristics, it is necessary to deal with them especially in terms of their possible adverse impacts on health. Within wood mass processing, when abrading *via* sanding or other processing technologies, it is necessary to have knowledge of the properties of harmful chemical agents generated from wood waste, *i.e.*, the wood dust. In particular, toxicology bases show how to study and handle them to eliminate the properties that are dangerous for employees (Andersen *et al.* 1999; Kauppinen 2000; Liroy 2002; Douwes *et al.* 2003; Acheson *et al.* 1968; Pukkala 2009; Kanagesan *et al.* 2013; Gašparík and Gaff 2013a,b) while not decreasing their working

performance, which can be defined as the quantity of work associated with a given period of time (working shift, week, month, year). The more complicated the work is, the longer will be the period connected with the working performance. At the same time, the determination of a suitable measurement unit applicable to working performance is a key factor affecting the results. Each level of working performance depends on two basic parameters, *i.e.*, the employee's personal preconditions and on the technical and organizational conditions in which the working activity takes place. The employee's personal preconditions are determined mainly by his/her qualifications, abilities, health conditions, and motivation. The technical and organizational conditions of work represent the sum of the parameters determining the course of the working process. These include, in particular, workplace equipment (production, organization, and IT equipment), working procedure, type and quality of processed material, type and extent of processed information, quality product or work requirements, organization of the workplace, working regime, and last but not least working environment and safety conditions.

Wood dust, whether generated from hand-made wood processing or at large-scale wood processing plants, should be purged from the working area and disposed of. Since oak-wood and beech-wood dusts were included on the list of health-endangering substances, producers as well as users have made great efforts to minimize it. The result has been the maintenance of wood-dust exhausting regimens conducted by stationary wood-processing devices with the aim of reaching the prescribed permissible maximum total dust concentration of 2 mg/m^3 (Očkajová *et al.* 2014). However, within hand-made production lines, this threshold value is often highly exceeded.

Since 1982, wood dust has belonged to the catalogue of dangerous substances of whose carcinogenic potential there is reasonable suspicion. This substantiation is based on a manifold of epidemiologic studies describing adenocarcinogenicity of the nose and sinuses of employees working in the wood processing industry as a typical occupational carcinogenic disease (Hernberg *et al.* 1983; Brinton *et al.* 1984; Hubbard *et al.* 1996; Andersen *et al.* 1999; Yu and Yuan 2002). Further publications have confirmed that one cannot doubt the risk of cancer from working in close association with certain types of hardwoods. Oak-wood and beech-wood dusts have been unambiguously confirmed to be carcinogenic substances in workplaces (Hadfield 1970; Varsha and David 2006). The following reasons could be considered probable origins of cancer risk:

- chemical content of wood substances;
- pyrolysis products;
- auxiliary substances and protective substances used in wood processing; and
- mechanical irritation of nasal mucous membrane surface.

Grain surfaces can be smooth, rough, soft, hard, or flexible. The inhalation of wood dust may cause allergic symptoms in the respiratory tract mucous membrane. In large amounts, dust acts as an irritant to the eyes, nose, and throat. Significant accumulations of fine particles can result in damage of lung functioning, cause asthma, and be carcinogenic (Nylander and Dement 1993; Ameille 2003). For safety and health protection at work, there are prescribed threshold values for wood dust. The EU Directive (the Council Directive 1999/38/EC on the protection of workers from the risks related to exposure to carcinogens at work and extending it to mutagens) prescribed the limit of 5 mg/m^3 for the inhalation hardwood fractions.

The time-weighted average (TWA) is widely applied in dust analysis. There exist two reference periods for which the limit is valid: the 8-h TWA and the 15-min short-term

exposure limit (STEL). A substance can be assigned to the occupational exposure limit (OEL) in one or in both reference periods.

In order to demonstrate certain adverse health effects using the 8-hour timely measured average (TWA), longer or accumulated exposure is necessary. The 8-h TWA checks these effects by restricting the total breathing over one or more working shifts.

For the 15-min STEL, certain adverse health effects can occur after a short exposure period. The 15-min STEL can be used to control these effects. Exposure to a substance that has been assigned the maximum exposure limit (MEL) in the 15-min STEL should not exceed that limit. The TWA value is measured or calculated in terms of the reference period of eight hours of the Time Weighted Average on Permissible Exposition Limits (PEL). The standard is prescribed by the Occupational Safety and Health Act-OSHA 3371-08: 2009 Management of Safety and Health Protection at Work in the USA:

- TWA 15 mg/m³ for each wood dust (both softwood and hardwood); and
- TWA 5 mg/m³ for respired wood dust (both softwood and hardwood).

EXPERIMENTAL

Materials

Generally, the dust is crushed and pulverized from the solid substance of any shape, structure, and density. The wood dusts, from physical and chemical standpoints, belongs to the range of colloidal and dispersed systems for which the linear dimension of the particle is the essential characteristic. Dust is understood to consist of particles of a solid substance that have at least two dimensions smaller than 0.5 mm (Bartknecht 1987). Small linear dimensions lead to a significant increase in the surface area relative to the given mass of the entire system. From physical and chemical standpoints, a dust is a dispersed system that arises by means of the continual dispersion of particles within a dispersing environment. If the solid substance is dispersed within the air, then it is defined as an aero-dispersed mixture according to the size of the dispersed particles. The degree of dispersion is determined by the ratio of the surface of all particles, S , to their total volume per the mass unit,

$$d_0 = \frac{S}{V} \quad (1)$$

where d_0 is the degree of dispersion (m⁻¹); S is the surface area of particles (m²); and V is the volume of particles (m³).

The value of the dispersion index depends on the geometrical shape of dust particles. The value of the index grows as the linear size of particles decreases. The growing dispersion index leads to higher occurrence of surface phenomena. The forces from the neighbouring particles affecting the atoms or molecules in the depth of solid or liquid phases are balanced. However, the forces occurring on the surface interface are not balanced (Brázda and Zegzulka 2011). This is related to the surface tension and surface energy needed to enlarge the surface. The surface energy in the system grows with higher dispersion index. More atoms and molecules come into contact with another phase.

Particle size and shape belong among the most important quantities that characterize the particles and determine their degree of separation from the gaseous environment. They affect motion characteristics, which in mechanical and electrical

separating precipitators determine the separation velocities and thus the final degree of separation. The particle size affects the size of the electrical charge that can be transferred by the particle, and thus the separation possibilities are determined at the electrical separating precipitators. At the same time, the diffusion of particles, which plays a significant role during the filtration process, is strongly dependent on the particle size. Also depending on particle size are the optical characteristics that are used for the concentration as well as the particle graininess measurements.

Three essential types of particles can be distinguished:

- isometric particles, in which all three dimensions are mutually comparable;
- laminar (plane) particles, in which two dimensions exceed the third one (lamellas, shavings, chippings);
- fibrillar particles (fibres), in which one dimension is significantly larger than the other two (fibres, needles).

The classification of particle shapes and their marking for the characterization of graininess of loose materials:

- I sharp corners with three similar dimensions (*e.g.*, cube);
- II sharp corners with one dimension significantly greater than the remaining two (*e.g.*, prism, rod);
- III sharp corners with one dimension significantly smaller than the remaining two (*e.g.*, board, blade);
- IV rounded corners with three similar dimensions (*e.g.*, sphere);
- V rounded corners with one dimension significantly greater than the remaining two (*e.g.*, cylinder, rod);
- VI filamentous, curling, segmental.

Methods

Saw Dust Isokinetic Sampling

The sampling took place by means of a gravimetric apparatus of type MU 5 - OT manufactured by ORGREZ Brno, Czech Republic (Fig. 1)

The sampling point is selected in a manner such as to keep an upstream straight section with constant cross section and length equal to 10 times of the piping diameter. Should this condition not be met, lesser accuracy of the result must be expected. The gas flow speed in the piping is measured in the sampling point. The isokinetic probe head diameter is determined in function of this value (v_{\max}).

The sampling of the required amount of saw dust is carried out after the isokinetic probe installation in the air-conditioning piping and after the isokinetics setup.

As the exhaust piping diameters (d) from the frame saws are ranging from 160 to 250 mm, and those from log saws and circular saws from 125 to 280 mm and the circular cross-section area of the exhaust piping from these saws is $S \leq 0.09 \text{ m}^2$, the saw dust sampling is carried out in accordance with STN ISO 9096: by means of a single sampling point located in its plane center.

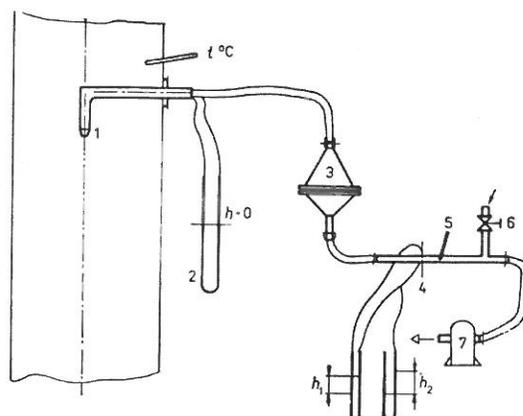


Fig. 1. Gravimetric apparatus for saw dust isokinetic sampling: 1 – input suction nozzle, 2 - differential pressure gauge for the isokinetics setup measurements, 3 – filter, 4 – orifice pressures sensor, 5 – thermometer, 6 – control valve for air supply, 7 – suction source

Determination of saw dust moisture

Gravimetry is the most usual method to determine the wood moisture. This method is based on finding the mass of both as-received and dried wood by means of weighing with an accuracy of 0.01 g. The sample drying time inside the hot-air lab dryer at 103 ± 2 °C depends on the sample amount and grain size. Therefore, the measurement of the loose wooden mass moisture is carried out on a sample of approximately 10 g, spread across the entire scale pan. The test sample reaches its constant mass when the mass change between two weighings carried out through the interval of 2 h, shall not exceed 0.01 g. Once the saw dust reaches the constant mass, it is cooled down in a dessicator with hygroscopic substance to room air temperature. After the cooling, the saw dust is removed from the dessicator and weighed with an accuracy of 0.01 g (Kačík – Solár 1999).

The absolute moisture content is computed from the body mass before and after the drying using Eq. 2,

$$Wa = \frac{m_w - m_0}{m_0} * 100 [\%] \quad (2)$$

where m_w is the wet sample mass [g], and m_0 is the sample mass after the drying [g].

Determination of saw dust grain size by sieving

Sieving of the saw dust on a set of sieves with the following mesh sizes was carried out for the basic granulometric analysis: 2 mm, 1 mm, 0.50 mm, 0.250 mm, 0.125 mm, 0.080 mm, 0.063 mm, and 0.032 mm above a bottom tray, on a Retsch automatic vibration engine model AS 200. The sieving engine AS 200 is suitable for sieving of loose dispersed products, with max. size of 25 mm, both wet and dry.

The procedure for the determination of powder fraction content in the saw dust (Methodologic procedure IM-AS 200) is as follows.

1. Each sieve and the bottom tray for the analysis are cleaned and weighed on lab scales with weighing accuracy of 0.01 g; the masses are recorded in a table.
2. The set of sieves ordered from the biggest mesh size to the smallest one, followed by the bottom tray, are placed on the sieving vibration machine AS 200.

3. A sample (50 g approx.) is weighed on the lab scales with weighing accuracy of 0.01 g. This sample is put on the uppermost sieve of the sieving machine.
4. The set of sieves is enclosed inside a glass lid. After the lid is screwed by the mean of tightening bolts, the sample is sieved during $\tau = 15$ min.
5. When the sieving is over, the individual sieves with the saw dust fractions thereon are weighed, and the results are recorded in the table.
6. The difference between sieve mass after sieving and sieve mass before the sieving is equal to the saw dust fraction mass.
7. The sieve analysis can be deemed correct if the fractions total mass vs. sample mass is ranging between 0.98 and 1.00.

Optical analysis of powder fraction with size under 125 μm

In order to quantify the shape and dimensions of the smallest particles of the fine fraction, microscopic analysis of the saw dust grains smaller than 125 μm was carried out. An optical method was used for this analysis, investigating the image obtained on a Nikon Optiphot – 2 microscope with Nikon 4x objective lens. The saw dust grains were recorded with a 3-chip Hitachi HV-C20 (RGB 752 x 582 pixels) CCD TV camera and with horizontal resolution 700 TV lines. This was evaluated by the mean of LUCIA-G 4.0 (Laboratory Universal Computer Image Analysis) software program installed on a PC.

The image analysis application LUCIA-G allows the identification of the individual particles of loose wooden mass and the quantification, among others, of such basic information for the individual particles within the analyzed image as follows: particles length, width, and circularity. The circularity expresses the degree of deviation of the projection of the grain shape from the circular shape according to the following formula,

$$\Psi = \frac{4 \cdot \pi \cdot S}{O^2} \quad [-] \quad (3)$$

where S is the particle area [m^2], and O is the particle perimeter [m].

The procedure for observation of fraction with sizes under 125 μm was as follows:

1. A sample was taken from the saw dust to be analyzed.
2. The sample was placed on a watch glass and, together with black paper in order to obtain dark background, then placed under a Mitsubishi CCD 100 E camera.
3. Using the PC and LUCIA application, saw dust images with 30-fold magnification were created.

RESULTS AND DISCUSSION

Wood sawing and sand abrading operations, besides forming the main products also generate sawdust and wood dust; the shape, dimension, and amount dust produced is dependent on both the physical and chemical characteristics of the sawed and abraded wood as well as on shape, dimension, sharpness of cutting tools, and the technological conditions of sawing and sand abrading operations (Heisel and Weiss 1995; Očkajová and Banski 2013; Očkajová *et al.* 2014;). These by-products (sawdust and wood dust) can have adverse effects on human health when they are not sufficiently trapped by exhausting and filtration equipment.

The next part of the article deals with the results of measurements of the amount of fractionated loose wood substances generated during the wood sawing and the sand abrading processes. The authors first dealt with the sawing operation of soaked wood, which is considered a type of first-step processing for this raw material. The second phase was focused on the analysis of the sawing and sand abrading processes of dried wood, which is considered a type of second-step wood processing. The subjects of the studies were the sizes of the particles of sawdust and wood dust, their concentrations, and the efficiency of the exhausting equipment in trapping the dust.

Measurements of the Amount of Fractionated Loose Wood Substances from Wood Sawing and Sanding Abrading Processes

In the wood processing industry, the standard way to transport sawdust from sawing equipment is by using air-ducts, *i.e.*, exhausting. The separation of the exhausted sawdust from the air in which it is transported is carried out using one-chamber separators (sawdust collectors), group separators, and fabric filters. These separating technologies differ one from one another by installation construction, separation principles, as well as by the ratio of exhausted, separated sawdust to the transporting air (Zhao *et al.* 1999; Dolny and Rogoziński 2014).

One of the ways that the optimal separating technology was determined was according to Separation Limit (SL) of the separation apparatus, *i.e.*, the size of the smallest particle a_{\min} of the sawdust that can be separated in the separating apparatus. The range below a_{\min} is then defined as being below the separation limit.

Figure 3 shows the curves of the residues of the wet sawdust of the species of spruce (*Picea abies*), pine (*Pinus montana*), beech (*Fagus sylvatica*), and oak (*Quercus robur*) when transported through the air ducts from frame saws (FS), log band saws (LBS), and log circular saws (LCS), and their comparison with the Separation Limit in the curves of fractional separation by mechanical wood dust collectors of the SEA type with T3/1000 segments, collectors of the SEB type with T4/630 segments, and fabric filters with filtration textile FINET PES 1 that are commonly used in wood processing.

In Diagram No. 3, the exhaust efficiency is 100%, since the residual curves are not crossing each other. Thus no particles, which could not be exhausted by the given filtration equipment, are generated in the case of wet saw dust. Everything should be correct for the wet saw dust and nothing should escape to the air and increase the dust level.

Based on the results displayed in Fig. 4, it could be stated that the mechanical dust collectors of the SEA and SEB types, as well as fabric filters with the filtration textile FINET PES 1, are all suitable for the separation of wet sawdust. The mechanical dust collectors SEB with T4/630 segments with the Separation Limit $SL = 12 \mu\text{m}$ and mechanical dust collectors SEA with T3/1000 segments with the Separation Limit $SL = 40 \mu\text{m}$, that is, the lower limit of sawdust graininess generated by the sawing of wet wood using rip circular saws (RCS), were found to best comply with the BAT (Best Available Techniques) criteria.

The fabric filters with the filtration textile FINET PES 1 captured sawdust with 100% efficiency, but they are too expensive in terms of the purchasing and operational costs (textile exchange after 12000 operational hours approximately) for air duct transporting systems.

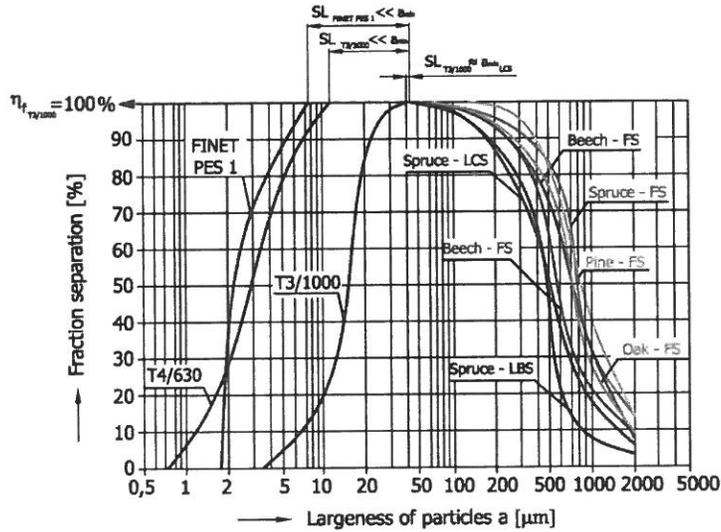


Fig. 2. Comparison of curves of wet sawdust residue from several sawing operations with curves of fractional separation

Similar graphical analyses were carried out to examine the curves of dry sawdust residue transported through air ducts from sawing operations employing the SL, the curves of fractional separation by mechanical wood dust collectors of the SEA type with T3/1000 segments, by mechanical wood dust collectors of the SEB type with T4/630 segments, and by fabric filters with filtration textile FINET PES 1, as shown in Fig. 3. Based on the results, it could be stated that as far as the transportation of dry sawdust from dimension timber workplaces through closed air-duct exhausting systems, the fabric filter that employed the filtration textile FINET PES 1 best complied with the BAT criteria.

The mechanical dust collectors of the SEA type only displayed 97% efficiency when separating the dry spruce sawdust. The efficiency of the SEB-type Mechanical dust collectors approached 100%, but as the grinding machines (sanders) producing the wood dust were usually connected to the air duct system, the concentration of dust fractions of loose wood substances in the recirculation air was higher than the permissible dust content in the recirculation to $TZL \leq 1 \text{ mg}\cdot\text{m}^{-3}$.

From the environmental assessment of dry sawdust exhausting during sawing operations at several facilities in the wood processing industry, it was established that air duct systems of subatmospheric pressure and which contain collectors with a Separation Limit $MO \leq 20 \text{ }\mu\text{m}$ were suitable for open air duct exhausting systems, and in fact represented the optimal technical solution as far as fulfilling BAT criteria. The mechanical dust collectors with T4/630 segments and fabric filters with the filtration textile FINET PES1 met this mentioned criterion.

As shown in Fig. 4, if the residual curve crosses the curve of the given filtering equipment, for example, at 97%, as in this case, then 3% of the particles will escape to the atmosphere; this is the dust that the present article is mainly concerned about. Mostly, these particles escape to the atmosphere during the grinding of dry wood. The difference between the two diagrams is the following: nothing escapes in case of Diagram 3, *i.e.*, the given filtering equipment is able to exhaust even the smallest particles, while in case of Diagram 4 for dry saw dust, the 3% escape to the atmosphere.

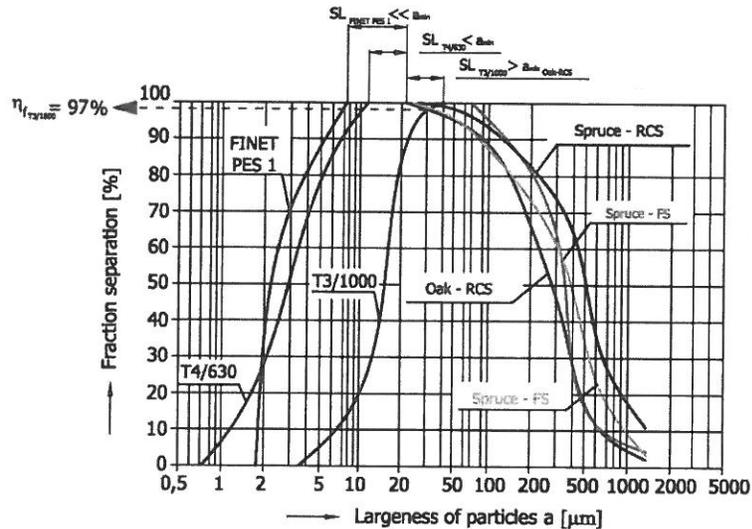


Fig. 3. Comparison of curves of dry sawdust residue from several sawing operations with curves of fractional separation

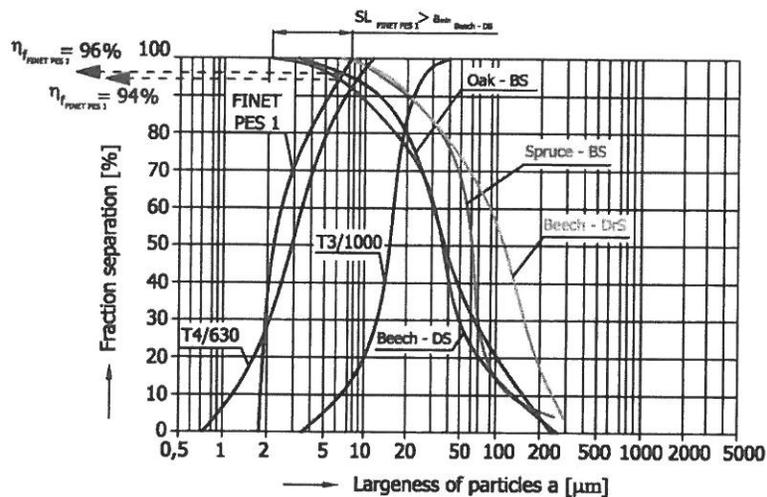


Fig. 4. Comparison of curves of wood grinding dust residues from several grinding operations with curves of fractional separation

Sanders are usually connected to the air duct systems that exhaust dust from workspaces handling dry wood material. Upon grinding the wood, waste in the form of wood dust is generated, where 98% of the volume of this waste represents particles smaller than 0.5 mm. When removal of dust is insufficient, the dust spreads freely through its environment. High dust concentrations in ambient air can cause serious health problems.

Figure 4 shows the curves corresponding to the wood grinding dust residue generated during the grinding of selected tree species (spruce, oak, and beech) by belt sanders (BS), drum sanders (DrS), and disc sanders (DS) and provides a comparison thereof with curves describing fractional separation by mechanical dust collectors of the SEA type with T3/1000 segments, dust collectors of the SEB type with T4/630 segments, and fabric filters with the filtration textile FINET PES 1.

Based on Fig. 4, it was possible to state that neither mechanical dust collectors of the SEA and SEB types nor fabric filters with filtration textile FINET PES 1 were able to separate the finest particles from grinding operations with 100% efficiency. Of the tested mechanical collectors of the SEA and SEB types and the fabric filters with filtration textile FINET PES 1, the most effective equipment was the fabric filters with filtration textile FINET PES 1, which were able to filtrate oak wood dust at 96% efficiency and beech wood dust at 94% efficiency. In the case of the mechanical dust collectors of the SEA and SEB types, the separation values for the grinding operations were even lower.

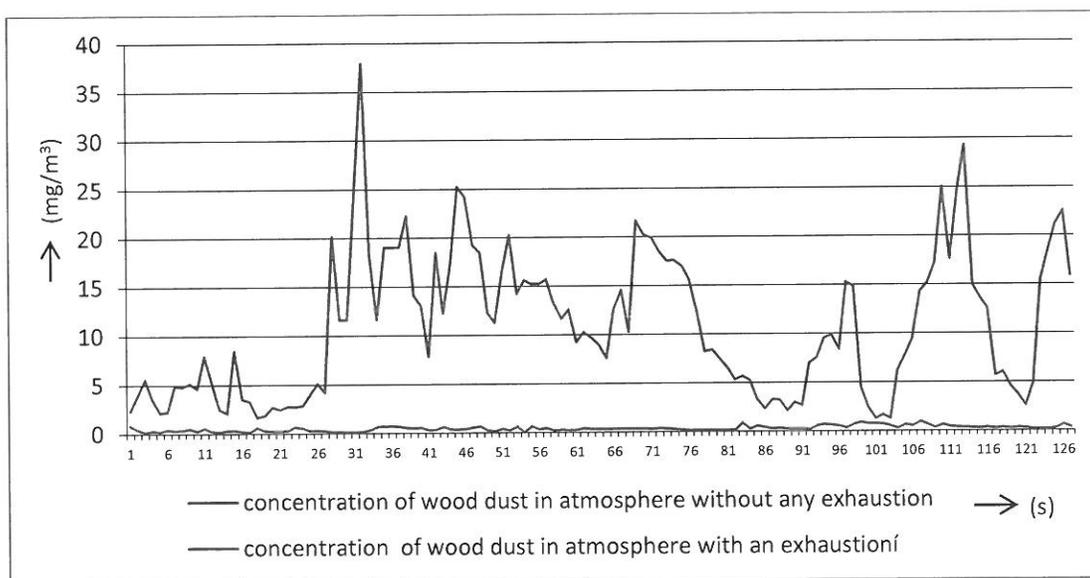


Fig. 5. Comparison of concentration levels of wood dust in atmosphere with exhaust and without exhaust (mg/m^3)

Figure 5 shows the measured concentrations of wood dust particles in an ambient atmosphere without exhausting compared to those with exhausting; both were measured using the MicrodustPro, which is a portable device with a monitor designed to evaluate dust aerosol concentrations.

Based on the measured values, the concentration of wood dust particles in the atmosphere of workplace areas without exhaust reached $38 \text{ mg}/\text{m}^3$, while those with exhaust decreased to $1 \text{ mg}/\text{m}^3$. The Directive 1999/92/EC of the European Parliament and of the Council of 16 December 1999 was implemented by the Regulation of the Government of the Slovak republic No. 393/2006 Coll. on minimal requirements for securing safety and health protection at work in explosive atmospheres. This regulation required that wood processing machines be equipped with individual exhaust devices. Despite the nationwide Slovak trend of the general and sustained increase in oncologic diseases, as Fig. 6 shows, Slovakia has experienced a rapid decrease in the occurrence of nasopharynx carcinomas among men and women employed at work in processing factories (100,000 workers altogether). Because of the mentioned governmental regulation and its application in practice, principal changes, in terms of the occurrence of nasopharynx carcinoma, to the health status of employees of the wood processing industry in Slovakia have taken place.

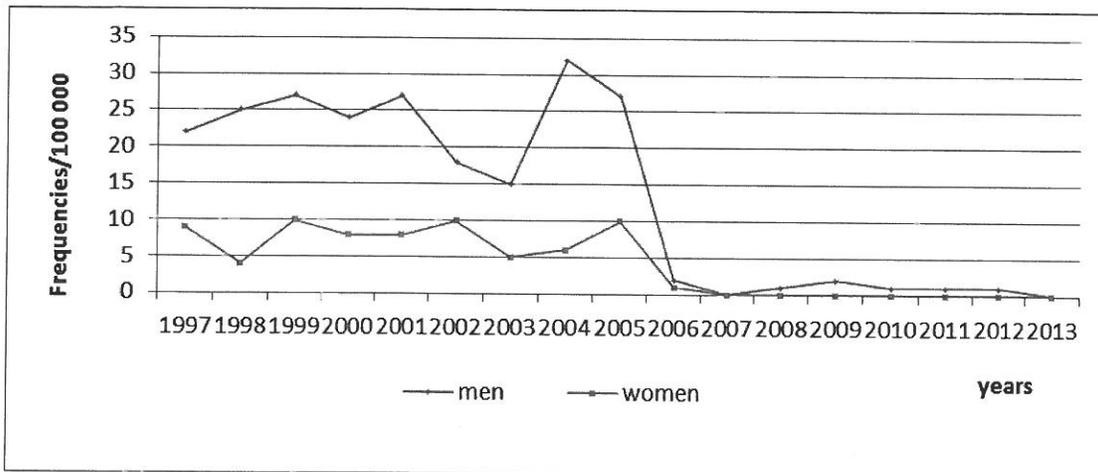


Fig. 6. Frequencies of occurrence of nasopharynx carcinomas among men and women in Slovakia

CONCLUSIONS

1. Wood processing, in the present case specifically the processing of the wood mass of spruce (*Picea abies*), pine (*Pinus montana*), beech (*Fagus sylvatica*), and oak (*Quercus robur*), was the subject of this work. These mentioned materials were subjected to sawing using the frame saw, the log band saw, and the log circular saw in technological operations, while waste in the form of wood sawdust as well was generated by means of abrasion by sanding at belt sanders, at drum sanders, and at disc sanders.
2. From the results of the study, it could be said that both mechanical wood dust collectors of the SEA and SEB types as well as fabric filters with the filtration textile FINET PES 1 were suitable to perform the separation of wet sawdust from other types of wood-waste generated during processing. Among the closed air-duct exhausting systems intended to expel dry sawdust from dimension timber production, the fabric filters with the filtration textile FINET PES 1 complied best with the BAT criteria. As far as dealing with the residues of wood grinding dust, the fabric filter with the filtration textile FINET PES 1 seems to have been the most effective, as it was able to filtrate oak wood dust with 96% efficiency and beech wood dust with 94% efficiency. As for the mechanical wood dust collectors of the SEA and SEB types, the separation values for the abrading operations were even lower. There are other types of filtrating equipment (e.g., electrical filters) available on the market that are able to absorb wood dust with higher efficiency than the tested fabric filters, but their costs are significantly higher, and thus these filters are used only rarely. Based on previous results, it could be stated that increased wood dust concentration in the air can be generated, especially during wood abrading, where the separation efficiency is not 100%. While wood dust concentration in the workplace atmosphere without exhausting reached 38 mg/m^3 , that for the atmosphere with exhausting was 1 mg/m^3 . This verified the exhausting efficiency of fractional separation technology and its effect on decreasing the wood dust concentration in the workplace atmosphere for employees in the wood processing industry.

3. The European Union Directive for safety and health protection stipulates a marginal value for wood dust at 5 mg/m^3 , and the OSHA Regulation (OSHA 3371-08:2009). Management of safety and health protection at work in the USA also stipulates 5 mg/m^3 for aspirated wood dust (hard as well as the soft dust). From the results referred to in the paper, these values were regulated using wood dust exhausting. At correct fractional separation of wood dust, the health damage due to the fact that employees do not inhale substances with mutagenic effects.
4. To maintain long-term working performance of employees, it is necessary to fulfil several criteria. From an organizational standpoint, this constitutes the maintenance of the supply of sufficient working material, quality technology, and machinery operation without malfunction. From the management standpoint, it is necessary to secure equitable evaluation of work and sufficient motivation aimed at maintaining performance. However, last but not least, it is necessary to promote the well-being of workers in the workplace, which depends on factors besides the quality of the working environment. The future health status of employees depends on the quality of care devoted to the working environment (in this case, an investigation into fractional dust collection). Based on the conclusions herein, it could be expected that a rapid decrease in the concentration of wood dust in the workplace air would take place, thus minimalizing the inhalation of carcinogens and decreasing the occurrence of nasopharynx tumors. If the regulations concerning safety and health protection at work are consistently met, by means of the use of quality and high-performance exhausting equipment and prescribed work breaks for rest, it should be possible to maximally eliminate the risk of unwanted carcinogenicity in the air which wood dust introduces.

ACKNOWLEDGMENTS

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Exposure assessment of residents living near a wood treatment plant[☆]

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Abstract

We report the results of environmental sampling and modeling in a neighborhood adjacent to a wood processing plant. This plant used creosote and pentachlorophenol (PCP) to treat wood for over 70 years. Between 1999 and 2001, environmental samples were obtained to quantify the level of environmental contamination from the wood processing plant. Blood from 10 residents was measured for chlorinated dioxins and dibenzofurans. Soil sediment samples from drainage ditches and attic/dust samples from nearby residents' homes were tested for polychlorinated dioxins, furans, and polycyclic aromatic hydrocarbons (PAH). The dioxin congeners analysis of the 10 residents revealed elevated values for octachlorodibenzo-*p*-dioxin and heptachlorodibenzo-*p*-dioxin compatible with PCP as the source. The levels of carcinogenic PAHs were higher than background levels and were similar to soil contamination on wood preserving sites. Wipe sampling in the kitchens of 11 homes revealed that 20 of the 33 samples were positive for octachlorinated dioxins with a mean value of 10.27 ng/m². The soil, ditch samples, and positive wipe samples from the homes indicate a possible ongoing route of exposure to the contaminants in the homes of these residents. Modeled air exposure estimated for the wood processing waste chemicals indicate some air exposure to combustion products. The estimated air levels for benzo(*a*)pyrene and tetrachlorodibenzodioxin in this neighborhood exceeded the recommended levels for these compounds in some states. The quantitative data presented suggest a significant contamination of a neighborhood by wood processing waste chemicals. These findings suggest the need for more stringent regulations on waste discharges from wood treatment plants.

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Keywords: Creosote; Wood processing waste; Pentachlorophenol (PCP); Environmental pollution; Contamination

1. Introduction

Industrial sites, which may produce environmental pollution, can result in adverse effects in nearby residents (NIOSH, 1977). In this paper we present results of measurements of wood processing waste (WPW) chemical contaminants adjacent to a wood treatment plant including biomonitoring results from blood polychlorinated dioxins and furans. In a companion paper we report the results of a health study of this population. Residents in a small southern town filed a

lawsuit against the wood treatment plant because of concerns about the effects of the contamination. These nearby neighbors complained that a strong odor of creosote was associated with the occurrence of symptoms including skin itch, headache, eye burning, sore throat, nausea, cough, and chest tightness. In addition, they reported oily ditch water and visible airborne particulates emanating from the wood treatment plant. On numerous occasions there were releases of oily, black specks that damaged automobile paint, requiring repainting. The wood treatment plant paid the repainting expense. Several drainage ditches flowed from the factory into the neighborhood. The company discharged WPW into the drainage ditches. During rain storms the ditches frequently overflowed, carrying WPW into the yards of the neighbors. Flooding of the neighborhood occurred on numerous occasions during the years

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Children played in the ditch water during the summer. Some residents used scrap wood from the plant for home fireplace wood. A large fire in 1974 caused an acute exposure to levels of chemically contaminated smoke and run-off water, adding to the neighborhood contamination.

The plant operated from 1929 to the time of the writing of this article using coal-derived creosote continuously and pentachlorophenol (PCP) from the 1950s until 1974. Heat and pressure were applied to facilitate penetration of the creosote and PCP into the wood. The creosote was dehydrated on a regular basis to keep the moisture content below 3%. The dehydrating process required additional heating of the creosote, which released more vapor into the air. Creosote is a complex mixture containing a large percentage of polycyclic aromatic hydrocarbons (PAHs). Creosote constituents are numerous, but naphthalene and alkyl derivatives are the main components. Creosote contains significant amounts of aromatic hydrocarbons, including benzene, toluene, xylene, trimethylbenzene, methyl ethyl benzenes, styrene, phenol, and methyl styrene. The polycyclic aromatic hydrocarbons include benzo(*a*)pyrene, naphthalene, methyl naphthalene, dimethyl naphthalene, ethyl naphthalene, acenaphthene, fluorene, dibenzothiophene, acenaphthylene, benzocalpyrene, benzo(*ghi*)perylene, anthracene, pyrene, penanthrene, chrysene, benzo(*e*)pyrene, dibenzo(*ah*)anthracene, benzo(*k*)fluoranthrene, and benzo(*a*)fluorene. Other related compounds in creosote include benzofuran, dibenzofuran, benzonitrile, methyl benzonitrile, benzothiophenes, cresols, indenenes, methyl indenenes, xylenols, quinoline, isoquinoline, and diphenyl (Benedetti et al., 2001). PCP is contaminated with polychlorinated aromatic hydrocarbons (CAHs) (i.e., chlorinated dioxin and furans) (ATSDR, 1999a). High pressure and heat were applied to facilitate penetration of the PCP into the wood, which potentially increased the formation of dioxins. Discharge of contaminants into the air, which occurred from normal operations, is believed to have created low-level air exposure on a daily basis. Unusual events such as a fire at the wood treatment plant and floods over the years have caused transient elevated levels of chemical contamination.

We report here a representative sample of the measurements of WPW chemical contamination in the neighborhood adjacent to the wood treatment plant. Exposure pathways for the residents included air, soil, and surface water contaminated with WPW, including chlorinated dioxins and furans. Quantitative data were obtained on human blood, drainage ditch sediment, and yard soil levels for polychlorinated dioxin and furans. Semiquantitative wipe samples from kitchen countertops and baseboards were obtained and analyzed for polychlorinated dioxin and furans by the wood treatment plant management. Measurements were performed

on ditch sediment, soil, and house dust for polycyclic aromatic hydrocarbons and petroleum hydrocarbons. Air exposure estimates for some of the residents' homes were modeled for PAHs, polychlorinated dioxins, and creosote volatile organic chemicals (VOCs), and particulates on nine of the homes near the wood treatment plant were also analyzed.

2. Materials and methods

Between 1999 and 2001 a variety of environmental samples were obtained to assess the presence and quantify the level of contamination from the wood processing plant. Biomonitoring studies were carried out on 10 African American adults who were, nearby residents of the plant and who were chosen at random from the initial study cohort of 1269 nearby residents based upon their having lived in the neighborhood for over 25 years. The subjects of the study were fully informed and signed an informed consent to participate in the study. Whole blood was collected in November 2000 in chemically cleaned glass containers prepared by the analytic laboratory with anticoagulant and also with Teflon tops containing no paper products for the nearby residents and for a Dallas, Texas comparison group. Blood was frozen and sent frozen on dry ice to Hamburg, Germany for polychlorinated dioxin and furan analysis at the ERGO Laboratory. Analysis was performed by high-resolution gas chromatography/high-resolution mass spectrometry by methods previously described (Paepke et al., 1989). Two sediment samples were collected simultaneously from the ditch adjacent to Mill Street (see Fig. 1) and were also performed by the ERGO Laboratories.

Some sediment, soil, and all house/attic dust samples were collected by Environmental Technologies Inc. Laboratories (Magnolia, TX) and analyzed in accordance with Environmental Protection Agency (EPA) and American Society of Testing Materials (ASTM) methods.

Surface soil samples were collected using hand trowels and augers. Subsurface sampling was conducted with the Geoprobe soil sampling system, and settled dust samples were collected using a microvacuum system and a 0.8- μm cellulose filter as described in ASTM methods #E 1973-99 and #D 5438-94 and EPA method #747-R-95-01. All samples were preserved as required and express-shipped to the analytical laboratory.

The house dust analysis was of total settled dust. Particles of up to 100 μm in size can enter the human airway. Inhalable particles are considered when they can affect health, regardless of their size. Even though fume-sized particles can enter the body through the lungs, the larger particles are swallowed. Thoracic particulates are generally 10 μm or smaller. Respirable particulates are

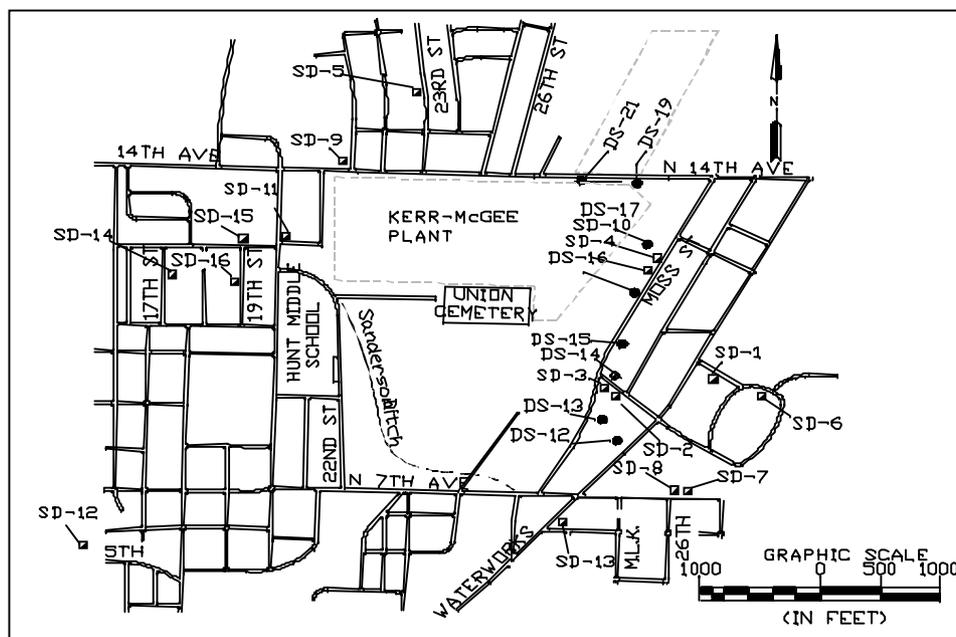


Fig. 1. Map of neighborhood with numbered sampling sites.

generally smaller than $4\mu\text{m}$. Therefore, the filter of $0.8\mu\text{m}$ was appropriate for swallowable (thoracic) and respirable dust.

The soil samples were analyzed by Xenco Laboratories (Houston, TX). The settled dust samples were split and analyzed by both standard analytical methods.

Other soil and ditch sediment samples were collected at the surface and to 2.5 ft below grade surface depths by 3TM International (Houston, TX). The DS number denotes the collection locations of the ditch and nearby soil samples shown in Fig. 1. The letter A identifies samples from the middle of the ditch, whereas soil samples 10 ft east of the ditch are identified by the letter B. The samples were collected into laboratory-supplied collection vessels and sent to the laboratory on ice. Xenco Laboratories analyzed the PAHs utilizing standard laboratory techniques. The SD number denotes the collection locations of the dust wipe samples from a template of 2 in. \times 12 in. The kitchen surface wipe samples were collected by consultants to the plant management and analyzed by Triangle Laboratories (Research Triangle Park, NC). The method used was believed to be an EPA-approved method.

Devraj Sharma of Principe Mathematica (Lakewood, CO) performed the air modeling. A systematic mathematical modeling analysis of air dispersion in the vicinity of Kerr-McGee's (KMC's) wood preserving facility site was conducted. This analysis was based upon a historical reconstruction of the facility operations and used estimated air emissions from significant sources during the time period from January 1929

through December 1999. This included 23 point sources and 10 area sources at different elevations. The hourly emission rates from each of these sources estimated for the seven-decade time period were modeled. The sources included the consequences of a fire which engulfed the KMC facility units for approximately 8 h on September 30, 1974. Influences of the uncertainties in available data were evaluated. The results of air dispersion modeling analysis were then utilized in evaluating nearby residents' exposures.

The computer program utilized for air dispersion modeling analysis of the KMC site is the US EPA's recommended code for analyzing industrial source complexes, **ISCST3**. The input data sets for this program, the receptor grid, the source representations and meteorological data used have all been selected, prepared, and utilized for modeling in accordance with the EPA's recommended procedures. In this respect, wind data from the local US Air Force Base were supplemented with upper air data and climatic information collected at locations nearby. Methods of filling relatively small gaps in available measurement data were devised and tested.

The receptor grid used for air dispersion modeling consisted of two parts: an individual receptor including approximately 27 locations and a polar coordinate system comprising more than 5000 grid nodes. Model calculations at all these receptor locations were saved and used to calculate exposures at each appropriate location and for each individual's appropriate exposure time span. The grid information was used to prepare contour diagrams of breathing-level concentration

plumes for a number of chemical species, including combustion products. The individual receptor information was used to prepare a set of tables that present the calculated air doses, i.e., multiplications of exposure concentrations and exposure duration, for each individual exposure location under several different scenarios. Each of these scenarios employed conservative approximations in order to overcome limitations in the available data; hence, the calculated doses represent lower limits of historical exposures. The cooling tower, which was identified as a major source of air contamination, was not modeled because of the lack of data from the plant management. Plant management first denied that the data ever existed; later the plant claimed that the data had been destroyed.

3. Results

Data from the resident's blood samples and two neighborhood drainage ditch's sediments are shown in Table 1. The dioxin congeners analyses in 10 resident sediment samples both reveal elevations of higher chlorinated dioxins, especially hepta- and octachlorinated dioxins in some persons. A similar pattern is seen in the blood of residents. A similar pattern is also seen in Table 4, which depicts environmental PCAH samples analyzed by a different laboratory. The pattern reveals a higher proportion of the higher chlorinated dioxin congeners. Presumably, chlorinated dibenzo-furans with shorter half-lives of elimination may have been excreted during the 26 years following cessation of PCP use prior to blood sampling.

Table 1 further compares the PCP wood processing ditch sediment samples with the recently published results of ditch sediment samples in Vietnam (Schecter et al., 2001). The Hanoi control sample is from northern Vietnam and the Bien Hung Lake 2 sample is close to a former air base.

Table 2 compares the PCP wood processing plant neighbors with the Dallas general population blood levels and with previous tissue levels in PCP-exposed German, Canadian, and Chinese workers (Paepke et al., 1992; Ryan et al., 1987; Schecter et al., 1996, 1994). Elevation of octachlorodibenzo-*p*-dioxin (OCDD) is the predominant congener noted in the PCP-exposed wood treatment plant neighbors. The mean level for OCDD is 2.6 times, that for heptachlorodibenzo-*p*-dioxin (HpCDD) is 1.3 times, and that for hexachlorodibenzo-*p*-dioxin (HxCDD) is 1.6 times higher in the wood processing plant neighbors than in the general population. As expected, the Canadian worker who died of acute PCP poisoning reported by Ryan et al. (1987) had quite high levels of those congeners found in PCP. The German workers reported by Paepke et al. (1992) had higher levels also presumably due to more current

exposure than that of the persons reported here. In rural China, the levels of dioxins in general in people are lower than in more industrialized countries, and PCP exposure may not have been as high as in the other cohorts presented.

Tables 3 and 4 report the results of sampling for dioxins along the drainage ditch, which parallels North 14th Avenue and then turns down Moss Street (Fig. 1). Table 3 also compares total dioxin/furan/PCB levels, expressed as toxicity equivalent factors (TEQs), to illustrate how our study group compared to another control group and another exposed population (Hanoi Control Sample and Bien Hung Lake). The levels are markedly elevated and again reflect the pattern expected from PCP contamination, namely higher chlorinated congeners, especially OCDD. Total dioxin/furan TEQs are within ranges seen in another dioxin-contaminated site, Times Beach, Missouri, where tetrachlorodibenzo-*p*-dioxin (TCDD) levels were in the 1 ppb range. Those levels of dioxin exerted a toxic effect in laboratory animal systems (Lucier et al., 1986).

Wipe sampling in the kitchen of 11 homes revealed that 20 samples of 33 were positive for octachlorinated dioxin with a mean value of 10.27 ng/m². The detection limit ranged from 0.517 to 2.583 ng/m². The two kitchen wipe samples with the highest values are shown in Table 5 which reports the results for selected congeners of chlorinated dioxins and furans. The wood processing company performed the wipe sampling. Unfortunately, there was no estimate of the area from which the wipe sample was taken so quantification is not precise. The results are presented here because they are consistent with PCP-derived contamination entering the home and persisting. The kitchen contamination suggests an ongoing route of exposure for these residents.

Table 6 reveals the levels in ppm of carcinogenic PAHs (cPAHs) in ditch sediment samples. Table 7 shows the carcinogenic PAHs toxicity equivalent factors (TEFs) for eight sampling sites. The cPAHs are significantly above background levels and similar to the soil contamination on wood preserving sites (Tables 5.3 and 5.4 in ATSDR, 1995).

Table 8 reports the modeled air exposure estimates for naphthalene, dibenzofuran, carcinogenic benzo(*a*)pyrene (B(*a*)P) TEQs, creosote VOCs and particulates. Table 9 report modeled air exposure estimates for chlorinated dioxin/furans TEQs.

Table 10 reports the house/attic dust results for petroleum hydrocarbons (PHC). PHC is similar to total petroleum hydrocarbons (TPH), but does not use freon in the analysis process. PHC was estimated from chromatographs EPA Method 8270, the background level expected in house dust is not established.

Table 2
Comparisons of dioxin congener profiles in samples of pentachlorophenol-exposed workers and the general US population

Congeners	TEQ ^a equivalence	PCP wood treatment residents				General population (Dallas; Schechter, 2000)			PCP poisoning (Ryan et al., 1987)	PCP workers (Germany) (Paepke, 1992)	PCP direct contact, (China)
		Mean	Median	Minimum	Maximum	<i>n</i> = 200	<i>n</i> = 1	<i>n</i> = 20			
PCDDs											
2,3,7,8-TCDD	1	4.1	3.7	1.9	7.4	2.6	15	4.5	3		
1,2,3,7,8-PeCDD	0.5	9.3	9.4	5.1	12.5	6.3	32	28.3	7.2		
1,2,3,4,7,8-HxCDD	0.1	9	8.7	4	15.1	6.4		47.9	22.1		
1,2,3,6,7,8-HxCDD	0.1	54.2	54.1	25	79.1	32.8	321	240.6	9		
1,2,3,7,8,9-HxCDD	0.1	7.1	5.9	3.4	12.8	4.9	159	110.3	2.9		
1,2,3,4,6,7,8-HpCDD	0.01	68.2	56.6	28.3	155.1	49.2	7.2	2514.1	24.1		
OCDD	0.001	859	727	277.5	2125.7	330.4	59300	33192	1148		
PCDFs											
2,3,7,8-TCDF	0.1	1.3	0.8	0.7	5	1	ND{2,0}	2.6	1.5		
1,2,3,7,8-PeCDF	0.05	2.2	1	0.6	5	0.05	NA	3.5	2.4		
2,3,4,7,8-PeCDF	0.5	4.8	4.2	3.1	7.2	4.5	23	48.6	ND{1.0}		
1,2,3,4,7,8-HxCDF	0.1	9.2	9.3	5	15.9	5.9		69.1	16.4		
1,2,3,6,7,8-HxCDF	0.1	5.7	5.1	3.4	10.2	3.5	80	63.7	2.3		
1,2,3,7,8,9-HxCDF	0.1	ND	ND			0.5	NA	1.2	ND {1.0}		
2,3,4,6,7,8-HxCDF	0.1	5.1	4.2	2.4	10.1	1.5	17	12.6	1.2		
1,2,3,4,6,7,8-HpCDF	0.01	11.1	10.6	5.9	19.5	6.7	2770	238.3	4.9		
1,2,3,4,7,8,9-HpCDF	0.01	ND	ND			0.8	1860	2.8	ND {1.6}		
OCDF	0.001	2.5	2.5	2.5	2.5	2.5	7060	8.7	5.2		
Coplanar PCBs											
33/44/TCB 77	0.0005	31.6	31	28.5	35.5	NA					
33/44/5-PCB 126	0.1	42.7	37.5	23	70	34.5					
33/44/55'-HCB 169	0.01	25.3	20	11	49	24.5					
Total PCDDs		1010.9	865.4			536.7	66847	36137	1216		
Total PCDFs		41.9	37.7			25.4	11810	450.3	35.7		
Coplanar PCBs		99.6	88.5			59.0					
Total PCDD/Fs and PCB		1152.4	991.6			621.0	78657.0	36587.0	1252.0		
Total TEQ		26.6	24.7			18.2	283.1	158.6	14.9		

Results are in ng/kg (ppt).

ND, not detected [limit of detection]; NA, not available.

^aToxicity Equivalents.

4. Discussion

Ten blood samples from residents drawn and analyzed in the year 2000 found elevations in some persons of higher chlorinated dioxins. A comparison with PCP workers reveals levels and patterns in these residents that are similar to those of exposed workers (Schechter et al., 1996, 1994). The elevated higher

chlorinated dioxins, especially OCDD, are consistent with previous exposure to PCP, which is characterized by dioxin contamination with the higher chlorinated PCDD/PCDF congeners (Paepke et al., 1992). A pooled blood sample from a general population of 200 Dallas,

Table 3
Total polychlorinated dioxins/furans in drainage ditch sediment samples at depths of 0–12 in

Sample site on map (Fig. 1)	Total polychlorinated dioxin/furans (ppt)	Total TCDD equivalents (TEQs)
DS-12A	615	1.04
DS-13A	439	0.44
DS-14A	ND	ND
DS-15A	55,537	66.77
DS-15B	377,377	2,593.17
DS-16A	1,393,786	9,854.16
DS-16B	4,552,708	10,096.9
DS-17A	326,456	1,214.19
DS-19A	2,739,054	4,579.12
DS-21A	221,014	311.51
Hanoi ^a control sample	473	6.5
Bein Hung Lake 2A ^b	2104	193

Results in ng/kg (ppt).

ND, none detected

^aHanoi sample is the northern Vietnam control sample (Schechter et al., 2001).

^bBein Hung Lake 2 sample is close to a former air base (Schechter et al., 2001).

Table 4
Concentrations of polychlorinated dioxin congeners in three sites

	DS-16A	TEQs	DS-16B	TEQs	DS-17a	TEQs
TCDD	991	991			86	86
12378 PCDD	3841	1720			346	346
123478 HxCDD	4987	498			427	42
123678 HxCDD	7337	733	6562	656	706	70
123789 HxCDD	6921	692			667	66
1234678 HpCDD	12,038	120	285,445	2854	11,298	112
OCDD	1,272,616	1272	4,034,652	4034	302,075	302
Total dioxin TEQs		6026		7544		1024
TCDF	996	99			92	9.2
23478 PCDF					425	212
123478 HxCDF	4951	495	9988	998		
123678 HxCDF	5029	502	1468	146		
123789 HxCDF	3795	379	7484	748	227	22
234678 HxCDF					770	77
1234678 HpCDF	17,626	176	46,703	467	2551	25.51
1234789 HpCDF	4481	44	3325	33	615	6.15
OCDF	48,380	48	157,077	157	6164	6.16
Total furan TEQs		1651		2359		136.82
Total dioxin/furan ppt TEQs		7677		9903		1160

Results in ng/kg (ppt).

Table 5
Dioxins from wipe samples on kitchen surfaces in homes

ng/kg (ppt)	Kitchen on Moss Street	Kitchen on 23rd Street North
TCDD	0.02	0.04
12378 PCDD		0.20
123478 HxCDD		0.22
123678 HxCDD		0.25
123789 HxCDD		0.23
1234678 HpCDD	0.1	0.25
OCDD	0.59	0.50
TCDF		0.03
23478 PCDF		0.21
12378 PCDF		0.22
123478 HxCDF	0.01	0.22
123678 HxCDF		0.23
123789 HxCDF		0.21
234678 HxCDF		0.23
1234678 HpCDF	0.03	0.24
1234789 HpCDF		0.20
OCDF	0.05	0.45
Total TEQs (ppt)	0.02385	0.37845

Surface areas sampled are not specified. Twenty out of 33 kitchen wipe samples were positive for dioxins. Values are in ng/kg (ppt).

Table 6
Carcinogenic cPAHs and total PAHs in neighborhood ditch samples

Sample site on (Fig. 1)	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Chrysene	Indeno(123-cd)pyrene	Total PAH ^a
DS-12A	ND	1.65	3.7	1.85	0.427	33.2
DS-13	0.963	3.0	4.1	2.85	0.498	38.2
DS-14	12.4	21.5	20.4	26.7	6.71	405
DS-14A	1.11	1.19	2.04	1.72	BRL	444
DS-15B	3.65	3.13	3.18	2.58	0.37	110
DS-16	24.5	70	33	61.5	10.5	1356
DS-16A	6.66	9.92	11.3	BRL	2.14	1355
DS-17A	1.9	3.81	2.56	BRL	BRL	245
DS-19	6.82	16.70	10.4	15.3	2.7	659
DS-21A	0.295	1.38	4.52	1.91	0.87	31.1
1009 Moss Street house dust sample	3.26	2.98	14.1	7.06	2.93	
1214 Moss Street house dust sample	0.099	0.11	0.22	0.11	0.094	
Background rural	0.002–1.3	0.005–0.02	0.02–0.03	0.038	0.01–0.015	
Wood preserving site surface soil	28	12	38	38	10	
MS DEQ target remediation goals	0.0875	0.875	0.875	87.5	0.875	
US EPA target remediation goals	0.062	0.62	0.62	62	0.62	

Comparisons are to ATSDR published background rural soil and contaminated site values (ATSDR, 1995). Results are in mg/kg (ppm).

^aIncludes noncarcinogenic and carcinogenic PAHs.

Table 7
Totals for carcinogenic PAHs in mg/kg with total toxicity equivalence factor

Sample site on (Fig. 1)	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Chrysene	Indeno(123-cd)pyrene	Total TEF
DS-12A	0	0.165	0.37	0.0018	0.042	0.5795
DS-13A	0.963	0.300	0.41	0.0028	0.042	1.7186
DS-14A	1.11	2.150	3.990	0.0267	0.670	7.9467
DS-15A	3.65	0.313	0.318	0.0025	0.037	4.3205
DS-16A	6.66	7.000	6.790	0.0615	1.050	21.5615
DS-17A	1.9	0.947	0.890	0.0082	0.130	3.8752
DS-19A	1.43	1.670	1.790	0.0150	0.270	5.1750
DS-21A	0.295	0.138	0.452	0.0019	0.087	0.9739
Toxicity equivalence Factor (USEPA, 2000)	1.0	0.1	0.1	0.001	0.1	

Table 8
Modeled air exposure estimates for naphthalene, dibenzofuran, carcinogenic B(a)P toxicity equivalent factors, creosote VOCs, and particulates

Exposure period		Maximum annual average air exposure for 10 residents (ng/m ³)—(High range—MPRH) ^a				
Start	End	Naphthalene	Dibenzofuran	Benzo(a)pyrene TEF	Creosote (VOC)	Particulate matter
07/1952	06/1979	30.57	5.92	0.07	72.78	0.79
01/1990	10/1995	70.14	13.59	0.18	167.00	0.44
12/1990	10/1995	68.22	13.22	0.17	162.42	0.44
07/1978	12/1999	67.18	13.02	0.17	159.96	0.44
07/1969	12/1999	41.41	8.03	0.10	98.59	0.65
07/1983	06/1985	68.58	13.29	0.17	163.29	0.47
07/1985	12/1999	46.12	8.94	0.12	109.82	0.40
07/1990	12/1999	33.29	6.45	0.08	79.26	0.36
07/1982	06/1995	30.56	5.92	0.08	72.76	0.38
07/1976	06/1981	35.47	6.87	0.09	84.46	0.56

^aMost Probable Range High.

Texas residents collected at about the same time documents current congener levels and dioxin levels in the general population of this region of the country.

Levels in the current Dallas blood show lower dioxin levels than previously reported (Schecter, 1994; Schecter et al., 1996). The blood polychlorinated biphenyls

Table 9
Modeled air exposure estimates for chlorinated dioxin/furans TEQs^a

Exposure period		Total air exposure (ng/m ³)(years) (high range–MPRH)		
Start	End	Polychlorinated dibenzo- <i>p</i> -dioxins (CDD) TEQ	Polychlorinated dibenzo- <i>p</i> -furans (CDF) TEQ	2,3,7,8-Tetrachloro-dibenzo- <i>p</i> -dioxin (TCDD)
07/1952	06/1979	1.536E-04	3.711E-04	4.606E-07
07/1979	12/1999	2.242E-05	5.416E-05	6.722E-08
03/1960	06/1989	4.456E-05	1.077E-04	1.336E-07
07/1959	06/1966	4.142E-05	1.001E-04	1.242E-07
07/1978	12/1999	3.072E-05	7.422E-05	9.211E-08
07/1969	12/1999	7.787E-05	1.881E-04	2.335E-07
07/1976	06/1983	3.037E-05	7.339E-05	9.108E-08
07/1962	06/1966	3.199E-05	7.729E-05	9.592E-08
07/1968	06/1978	3.332E-05	8.050E-05	9.991E-08
07/1967	06/1971	2.302E-05	5.562E-05	6.903E-08

^a TEQ—Toxicity Equivalents.

Table 10
Petroleum hydrocarbons house/attic dust levels in 16 homes near the wood processing plant in 2001

Sample site on (Fig. 1)	Address	Petroleum hydrocarbons ^a (mg/kg)
SD-4	1025 Moss Street	2230
SD-3	2304 Marvin Circle	14,600
SD-2	2306 Marvin Circle	2210
SD-6	267 Byrnes Circle	2610
SD-1	289 Byrnes Circle	4580
SD-5	1602, 23rd Street, North	1520
SD-7	2605, 7th Avenue North	2580
SD-8	2609-2619, 7th Avenue North	620
SD-9	1403, 21st Street, North	18,300
SD-10	1009 Moss Street	226,000
SD-11	1300, 20th Street, North	27,500
SD-12	514, 15th Street, North	6130
SD-13	2325 6th Avenue	9110
SD-14	1204, 17th Street, North	44,000
SD-15	1807, 12th Avenue North	46,400
SD-16	1213, 19th Street, North	10,900
Average		26,206

^aPHC—similar to TPH, estimated from chromatographs, EPA method 8270.

(PCBs) of the study group were not elevated above those of the Dallas reference group, which is expected, since PCB exposure in the wood processing neighbors would be similar to that of a normal background. After cessation of PCP use in 1974, its contaminants still remain in the neighborhood in the sediment of drainage ditches and in the soil at some locations. As a result, reexposure is possible, especially in children who are still playing in the ditches and on the adjacent soil. Dust from the contaminated soil can also be resuspended, giving rise to respirable dust and settling dust on surfaces in homes. Thus, ongoing exposure to the contaminants from prior PCP use is possible.

The finding of chlorinated dioxins from PCP indicates a pattern that is consistent with the neighbors of the wood processing plant having higher levels from neighborhood contamination than background. Whether the current blood levels reflect only prior exposure or a combination of prior exposure and ongoing exposure cannot be determined from the available information. It is probable that the levels of the dioxins in blood would have been higher in the decades during which the PCP was being used.

The PCP characteristic pattern of dioxins in the blood serves as a surrogate marker for the other contaminants. The PAHs are transient in the body, making dioxins the only biomarker of exposure available. One can assume that the contaminated soil and ditch sediment serve as a pathway of exposure for the residents living in this neighborhood. The quantitative internal dose that has occurred from this exposure to all the contaminants cannot be determined with assurance, but is likely to be significant, given the high levels of PHC in the attic dust. Since the house dust has high levels of petroleum hydrocarbon contaminants, it is probable that the inhabitants of those homes would be inhaling and ingesting carcinogenic and toxic chemicals in significant concentrations.

The residents report creosote odor on a daily basis even at the time of writing, although the strong odors from the plant are reported to occur less often. The strongest odors occur at night after 9 PM. Naphthalene is the largest creosote air constituent in wood treating plants (Heikkila et al., 1987). Heikkila and co-workers studied a creosote wood treatment plant and found naphthalene to constitute 2.2 mg/m³ (0.42 ppm) of the total 3.7 mg/m³ of airborne creosote vapor in the work area. This level of creosote exposure caused neurological and irritant symptoms in the exposed workers. The symptoms experienced by the near neighbors are similar to those in the exposed workers reported by Heikkila

Air levels of creosote vapor sufficient to cause symptoms are also accompanied by significant carcinogenic PAH exposure (Heikkila et al., 1987). The odor threshold for naphthalene is 0.437 mg/m³ (0.084 ppm), with a standard error of 9.88 mg/m³ (1.9 ppm) (Amoore and Hautala, 1983). Thus, the presence of a detectable odor of naphthalene associated with symptoms would indicate that significant airborne exposure to the creosote vapor is occurring and this at levels ranging from 0.437 to 2.2 mg/m³. Tables 8 and 9 provide results of air modeling of the vapors and particulates from the plant calculated as the concentration that would be present at the mailbox of the studied home. The results provide a quantitative estimate of exposures over time. The modeled exposures provide values consistent with annual exposures in range of nanograms per cubic meter. Such values would not result in strong odors or in symptoms. The reason that the modeled data are less lower than expected than the odors and symptoms reported by the residents is that the real-world conditions of plant operation differ from the assumptions of the model. The air modeling values are conservative and probably underestimate this route of exposure, since many activities of the plant, plus uncontrolled releases, cannot be considered in the calculations.

The air modeling reveals that there are annual exposures to a variety of airborne contaminants. The air modeling suggests doses of individual exposure, which are very conservative. It does not take into account the residents' exposure from events such as the dehydrating of the creosote. This is a process in which the creosote is heated to reduce the water content. This dehydrating process is carried out at night, at which time the residents note a strong odor. If the dehydrating process were taken into account, residents who lived close to the plant (closer than 1 mile) would have an estimated 15–50% higher exposure. Residents who lived further away (1 mile or further) would have an estimated 0–20% higher exposure. Even so, the annual doses of PAHs and dioxins are higher than some states' regulatory levels for inhalation and ingestion of these compounds. Michigan, for example, has an annual acceptable air exposure for dioxin (TCDD) of 2.3E–5 ng/m³ (ATSDR, 1998). If the TCDD equivalence factors were used rather than the TCDD alone, the values for some homes would be above the Michigan standard. The acceptable level of annual ambient air exposure for B(a)P in New York and Maryland is zero. The acceptable annual ambient air level for B(a)P in Vermont is 3E–11 ng/m³ (ATSDR, 1998).

The current EPA recommendation for ingestion of TCDD TEQs is that it is not to exceed 0.1 pg/kg/day of dioxin TEQs (USEPA, 2000). This established guideline relates to cancer risk. ATSDR has derived an acute-duration oral Minimum Reportable Limit (MRL) of 0.0002 µg/day. Risk of exceeding these values upon

exposure to the house dust, air, run-off water, sediment, and soil matrices exists in this neighborhood. The ingestion of 200 mg of soil from site DS-16B with 7.544 ppb TEQs dioxin would be highly dangerous and likely to have an adverse health impact. Site 16B is a vacant lot next to an occupied home. A 20-kg child playing in this yard could easily ingest 200 mg of soil (USEPA, 1989), for a dose of 75.4 pg/kg/day. Since this same soil also has high levels of PAHs, the population living in this neighborhood is sustaining a very high dose of carcinogenic and toxic chemicals. When all routes of exposure, inhalation, ingestion, and dermal, are included, higher than normal background exposure to dioxins and PAH has most likely occurred.

The finding of high levels of PHC in the house/attic dust indicates that contamination has occurred and is occurring. The Commonwealth of Massachusetts considers 10,000 ppm to be the upper concentration of TPH allowed in soil (ATSDR, 1999b). House/attic dust does not usually have significant TPH as a normal contaminant. Seven of the homes exceed the Massachusetts State allowable level for soil. House dust should probably have a lower acceptable level because of the greater likelihood that it will be ingested or inhaled. In addition, the make-up of this neighborhood's TPH would be expected to contain significant cPAHs as well as chlorinated dioxins based of what is present in the neighborhood kitchens, soil, and ditch sediment. Because there are high levels of cPAHs and dioxins in the soil and ditch sediment near these homes, it is possible that the attic dust also contains high levels of these carcinogenic and toxic pollutants. One thousand nine Moss Street, the house with the highest level of PHC (226,000 ppm), is between DS-16 and DS-15, where very high levels of contamination are present. The contaminants outside the home would be similar to the contaminants inside the home. TPH is probably a helpful surrogate of exposure intensity. It may also be an economical analytical agent for tracking the level of greatest pollution in the neighborhood.

The Agency for Toxic Substances and Disease Registry (ATSDR) has determined an action level of greater than 1 ppb TEQ for dioxin and dioxin-like compounds (ATSDR, 1998). The ATSDR recommends surveillance, research, health studies, community education, physician education, and exposure investigations (ATSDR, 1998). The toxicity levels documented here exceed the action level of the ATSDR and thus warrant a public health action concerning the residents living near the wood processing plant.

We conclude that the data presented here document a substantial contamination of a neighborhood by wood processing waste chemicals. That contamination has not remained in only ditches or in soil but has also reached the bodies of the residents. The predicted health risk to the residents from this contamination is considerable.

Our companion paper reports findings on the health effects found in the nearby residents. The findings suggest the need for more stringent controls on discharges from wood treatment plants to protect the public health.

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Long-Term Damage: Forget about the large chips and visible sawdust: perhaps the most damaging element is the invisible fine dust (sometimes called “coarse inhalable particles” ranging from 2-10 microns). Basically, these tiny bits of sawdust float around the air and linger even after the tools have stopped running. These invisible particles get inhaled and cause tiny wounds and scarring to our lungs: each time this happens, it causes a very small amount of irreversible damage. The immediate effect is unnoticeable, but over long periods of time, this can result in significantly decreased lung capacity, and a number of other health issues.

Irritants: The most common way that wood dust affects a woodworker is by being an irritant. This simply means that it can irritate our skin, our eyes, and our lungs. This can mean reactions such as itching, sneezing, coughing, runny nose, rashes, and asthma-like breathing problems.

Sensitizers: Taking things a step beyond being just irritating, some woods can make us more and more sensitive upon each successive exposure. So even if you don’t experience any sort of allergic reaction to the wood or its dust upon first exposure, each time you breathe the dust or handle the wood. Sometimes the eventual reaction can be quite strong, resulting in rashes or boils, severe sinus or respiratory pain/inflammation, or a number of other conditions depending on the wood species.

Toxins: Not nearly as common, some wood is considered to be directly toxic. One example of this is Yew, which even according to ancient Roman knowledge, was capable of causing fatality in certain cases. (See the introduction of the article, [Wood Allergies and Toxicity](#).)

Carcinogens: If you look at the [toxicity chart](#) of wood species, you’ll notice that some species have been shown to cause NPC. That is, Nasopharyngeal carcinoma, or nasopharyngeal cancer.

WHAT IS A SENSITIZER?

You’ve probably already heard the term *desensitized*—usually in reference to violent movies or images—meaning that we start off as naturally being sensitive to something, and upon more and frequent exposure, we become less and less sensitive to its effects.

Well, with some woods that have been classified as being a *sensitizer*, the opposite is true: the more we are exposed to a wood’s sawdust or other fine particles, the more sensitive we get to its exposure, and the more severe and adverse the reactions become.

If you ever have an allergic reaction to any wood that has been identified as a sensitizer, use extreme caution in handling or using that species (and related species) in future instances. Some have reactions so severe that they simply have had to stop and discontinue using certain wood species altogether. ([Cocobolo](#) is notorious in this regard.)

WHAT IS HP?

Hypersensitivity pneumonitis (also called extrinsic allergic alveolitis, EAA) is an inflammation of the alveoli within the lung caused by hypersensitivity to inhaled organic dusts. [HP on PubMedHealth](#).

WHAT IS NPC?

Nasopharyngeal carcinoma, or sometimes called nasopharyngeal cancer. Basically, it is a cancer of the upper area of the pharynx or “throat,” where the nasal passages and auditory tubes join the remainder of the upper respiratory tract. [NPC on MayoClinic.com](#).

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Toxicity of Wood Species Sawdust to Humans

Wood Species	Reaction	Area(s) Affected	Potency
Abura	irritant, nausea, giddiness, and vomiting		★★☆☆
African Blackwood	irritant, sensitizer	  	★★★★☆
Afrormosia	irritant, nervous system effects, asthma, splinters go septic	  	★★★★☆
Afzelia	irritant, sneezing	  	★★☆☆
Agba (<i>Gossweilerodendron balsamiferum</i>)	irritant		????
Ailanthus	irritant		★☆☆☆
Albizia	irritant, nausea, pink eye, giddiness, nose bleeds	  	★★★★☆
Alder (<i>Alnus</i> genus)	irritant	  	★☆☆☆
Alligator Juniper	irritant	 	★★★★☆
Amboyna	irritant, asthma	 	????
Andiroba	irritant, sneezing	  	★★☆☆
Angelim vermelho	unspecific allergic reactions		★★☆☆
Araracanga	irritant, asthma	 	★★★★☆
Ash (<i>Fraxinus</i> genus)	irritant	 	★★☆☆

Toxicity of Wood Species Sawdust to Humans

Ash, alpine (<i>Eucalyptus delegatensis</i>)	irritant	 	????
Ash, mountain	irritant	  	★★☆☆
Australian Blackwood	irritant, sensitizer, asthma	  	★★☆☆
Australian Cashew Nut (<i>Semecarpus australiensis</i>)	irritant, skin lesions, nosebleeds	  	★★★★
Avodire	irritant, nose bleeds, internal bleeding, asthma	 	★★★★☆
Balsa	irritant		★☆☆☆
Bamboo	irritant		★☆☆☆
Batai	irritant, sneezing	 	★★★★☆
Birch (<i>Betula</i> genus)	irritant, sensitizer, nausea	 	★★☆☆
Black Cherry	wheezing, giddiness		★☆☆☆
Black Locust	irritant, nausea	 	★★★★☆
Blackbean	irritant	  	????
Bloodwood	irritant, excessive thirst, salivation, nausea		★★☆☆
Bloodwood, Red (Australian)	irritant	 	★★☆☆
Blue Gum	irritant		★☆☆☆

Toxicity of Wood Species Sawdust to Humans

Blue Mahoe	sneezing		★☆☆☆
Bocote	cross reactions possible once sensitivity to other woods have developed		★★☆☆
Bosse	irritant, sensitizer, asthma, nausea, headache	  	★★★★
Box, Gray	irritant, rash	 	★☆☆☆
Boxwood, Knysna (<i>Gonioma kamassi</i>)	irritant, headache, asthma	 	????
Boxwood, European	irritant, sensitizer	  	★★☆☆
Brazilwood	irritant, headache, nausea, swelling skin, blisters		★★☆☆
Brigalow (<i>Acacia harpophylla</i>)	irritant		????
Brownheart	irritant		★★☆☆
Bubinga	irritant, lesions		????
Buckthorn	irritant, sap can cause dermatitis		★★☆☆
Bulletwood	irritant		★★☆☆
Camphor	irritant, asthma, headaches, giddiness	 	★★☆☆
Cashew (<i>Anacardium occidentale</i>)	irritant, blisters, sensitizer		★★★★

Toxicity of Wood Species Sawdust to Humans

Catalpa	irritant		★☆☆☆☆
Cedar, Alaskan Yellow	irritant		★☆☆☆☆
Cedar, Aromatic Red	irritant		★★★★☆
Cedar, Atlantic White	irritant		★☆☆☆☆
Cedar, Australian Red	irritant, asthma, migraine, giddiness, bronchitis, stomach cramps, NPC (rare)		★★★★☆
Cedar, Incense	irritant, rashes		★★★★☆
Cedar of Lebanon	irritant, asthma, runny nose, respiratory disorders		★★★★☆
Cedar, Northern White	irritant, asthma		★★☆☆☆
Cedar, Port Orford	irritant, runny nose, asthma, kidney problems (diuresis)		★★★★☆
Cedar, Spanish	irritant		★★☆☆☆
Cedar, Southern Red	irritant		★★★★☆
Cedar, Western Red	irritant, sensitizer, runny nose, asthma, nervous system effects, NPC (rare)		★★★★★
Chechen	irritant, sensitizer		★★★★☆
Chestnut, Chinese (<i>Castanea mollissima</i>)	irritant		★★☆☆☆

Toxicity of Wood Species Sawdust to Humans

Chestnut, Chinese (<i>Castanea mollissima</i>)	irritant		★★☆☆
Chestnut, Sweet	irritant, sensitizer		★★★★☆
Chico Zapote	irritant (nasal)		★★★★☆
Chinaberry	irritant, headaches	 	★★☆☆
Cocobolo	irritant, sensitizer, nausea, asthma, pink eye	  	★★★★★
Cocuswood	irritant		★★☆☆
Coolibah	irritant		★☆☆☆
Copaia (<i>Jacaranda copaia</i>)	irritant		????
Crow's Ash (<i>Flindersia australis</i>)	irritant		????
Cuban Mahogany	irritant		★☆☆☆
Cypress	sensitizer		★☆☆☆
Cypress, Australian	irritant, asthma, swelling of eyelids, boils, NPC (rare)	  	★★☆☆
Cypress, Gowen	irritant		★★☆☆
Cypress, Leyland	irritant		★★☆☆

Toxicity of Wood Species Sawdust to Humans

Cypress, Mediterranean	irritant, rashes, headaches		★★★★☆
Cypress, Mexican	irritant		★★☆☆☆
Cypress, Monterey	irritant		★★☆☆☆
Dahoma (<i>Piptadeniastrum africanum</i>)	irritant, sensitizer	  	★★★★☆
Dead Finish (<i>Acacia tetragonophylla</i>)	irritant, splinters go septic		????
Douglas-fir	irritant, giddiness, runny nose, splinters go septic, nausea	  	★☆☆☆☆
Ebony (<i>Diospyros</i> genus)	irritant, sensitizer, pink eye	  	★★★★☆
Ebony, Brown	irritant		★★☆☆☆
Ebony, Macassar	irritant, sensitizer		★★★★☆
Ekki	irritant		★★☆☆☆
Elm (<i>Ulmus</i> genus)	irritant, sensitizer, NPC (rare)	 	★☆☆☆☆
European Beech	irritant, sensitizer, NPC (rare)	  	★★☆☆☆
Eyoum (<i>Dialium dinklagei</i>)	irritant	 	????
Fir (<i>Abies</i> genus)	irritant		★☆☆☆☆

Toxicity of Wood Species Sawdust to Humans

Fir, Balsam	irritant		★★☆☆
Freijo	irritant, sensitizer, dryness/thirst		★★☆☆
Garapa	irritant		★★☆☆
Goncalo Alves	sensitizer	 	★★☆☆
Grasstree (<i>Xanthorrhoea spp.</i>)	irritant		????
Greenheart	sensitizer, wheezing, severe throat irritation, splinters go septic, cardiac and intestinal disorders	   	★★★★☆
Guanacaste	irritant	 	★★★★☆
Gum, Lemon-Scented	irritant		★☆☆☆
Gum, Spotted	irritant, rashes		★☆☆☆
Gum, Yellow	irritant	 	★☆☆☆
Hackberry	irritant		★★☆☆
Hemlock, Eastern	irritant		★☆☆☆
Hemlock, Mountain	irritant		★☆☆☆
Hemlock, Western	irritant, runny nose, NPC (rare)	 	★☆☆☆
Hophornbeam	irritant		★☆☆☆

Toxicity of Wood Species Sawdust to Humans

Hornbeam (<i>Carpinus</i> genus)	irritant		★★☆☆
Idigbo	irritant		????
Imbuia	irritant		★★☆☆
Indian Beech (<i>Pongamia pinnata</i>)	irritant		????
Indian Laurel	irritant		★★☆☆
Ipe	irritant, headache, asthma, vision effects		★★★★☆
Iroko	irritant, sensitizer, asthma, boils, giddiness, HP		★★★★☆
Ironwood, Desert	irritant, sneezing, coughing		★★★★☆
Jarra	irritant		????
Jatoba	irritant		????
Jelutong	irritant		★☆☆☆
Juniper, Phoenician (<i>Juniperus phoenicea</i>)	irritant, headache, nausea		????
Kahikatea (<i>Dacrydium dacrydioides</i>)	irritant		????
Karri	irritant		★☆☆☆

Toxicity of Wood Species Sawdust to Humans

Katalox	irritant		★★★★☆
Keruing	irritant		★☆☆☆☆
Kingwood	irritant, sensitizer, pink eye		★★★★☆
Koto	irritant		★☆☆☆☆
Laburnum 	constitutional effects (nausea, vomiting, headaches); direct toxin	N/A	★★☆☆☆
Lacewood	irritant		????
Larch (Larix genus)	irritant, hives, lesions		★☆☆☆☆
Leadwood (Combretum genus)	irritant		★☆☆☆☆
Lebbeck	irritant		★★★★☆
Lignum Vitae	irritant		????
Limba	irritant, hives, splinters go septic, asthma, bleeding of the nose and gums		????
Machiche	irritant		★★☆☆☆
Magnolia (Magnolia genus)	asthma, runny nose		★☆☆☆☆
Mahogany, African	irritant, sensitizer, NPC (rare)		★★★★☆
Mahogany, Honduran	irritant, sensitizer, boils, nausea, giddiness, asthma, HP		★☆☆☆☆

Toxicity of Wood Species Sawdust to Humans

Mahogany, Santos	irritant	 	★★☆☆
Makore	irritant, nausea, headache, giddiness, nervous system and blood effects	  	★★★★☆
Mango	irritant		★★☆☆
Mansonia	irritant, sensitizer, nausea, sneezing, headaches, nosebleeds, splinters go septic, asthma, giddiness, cardiac disorders	   	★★★★☆
Maple (Acer genus)	irritant, sensitizer, asthma; HP in spalted maple	 	★★★★☆
Maple, Queensland	irritant	 	★★☆☆
Meranti (Shorea genus)	irritant	  	????
Merbau	irritant	 	????
Mesquite (Prosopis genus)	irritant		★★☆☆
Messmate	irritant, asthma	 	★☆☆☆
Milky Mangrove (<i>Excoecaria agallocha</i>) ⚠	sap is poisonous , causes irritation to eyes and/or temporary blindness, headache, burning of throat, blistering of skin	  	★★★★
Mimosa	irritant		★★★★
Moabi	irritant (mucous membranes)	 	★★☆☆

Toxicity of Wood Species Sawdust to Humans

Molopangady (<i>Breonia madagascariensis</i>)	irritant, sores		????
Monkeypod	irritant		★☆☆☆
Mora	irritant		★☆☆☆
Movingui	irritant		★★☆☆
Muhuhu (<i>Brachylaena hutchinsii</i>)	irritant		????
Mulga	irritant, headache, nausea, lesions, wood contains a virulent poisonous principle used for spear heads by aboriginals	  	★★★★★
Muninga	irritant, asthma, bronchitis	 	★★☆☆
Myrtle	irritant, sensitizer	 	★★☆☆
Myrtle, Tasmanian	irritant	 	★★☆☆
Narra	irritant, asthma	 	★★☆☆
Norway Spruce	irritant, asthma	 	????
Nyatoh	irritant	 	????
Oak (<i>Quercus</i> genus)	irritant, sensitizer, asthma, NPC (rare)	  	★★☆☆
Obeche	irritant, sensitizer, runny nose, sneezing, hives, asthma	  	★★★★☆

Toxicity of Wood Species Sawdust to Humans

Okoume	irritant, cough, asthma, pink eye	  	★★☆☆
Oleander (<i>Nerium oleander</i>) 	irritant, nearly every part of the plant is toxic , cardiac effects	 	★★★★
Olive	irritant, sensitizer	  	★★★★
Opepe	irritant, sensitizer, nervous system effects	  	★☆☆☆
Osage Orange	irritant, sap can cause dermatitis		????
Osage Orange, Argentine	irritant, sap can cause dermatitis		????
Padauk (<i>Pterocarpus</i> genus)	irritant, sensitizer, nausea, asthma	  	★★★★
Palm (<i>Arecaceae</i> family)	irritant, constitutional effects		★☆☆☆
Parinari (<i>Parinari</i> spp.)	irritant		????
Partridgewood	irritant, hives, coughing	 	★★☆☆
Pau Ferro	irritant, sensitizer	 	★★★★
Pau Marfim (<i>Balfourodendron riedelianum</i>)	irritant		????
Pau Rosa	irritant		★★☆☆
Pau Santo	irritant		★★☆☆
Peroba Rosa	irritant, sensitizer, nausea, asthma	  	★★★★

Toxicity of Wood Species Sawdust to Humans

Persimmon	irritant		★☆☆☆
Pheasantwood	cavities in the wood can contain powder that is an irritant, skin discoloration		★☆☆☆
Pine (Pinus genus)	irritant, runny nose, asthma		★★☆☆
Pine, Huon	irritant		★★☆☆
Pistachio	irritant		★☆☆☆
Poison Walnut (Cryptocarya pleurosperma) ⚠	bark irritating to skin, dust may cause asthma, nausea, giddiness, sap is toxic and corrosive		★★★☆☆
Poplar	irritant, blisters, asthma, bronchitis		????
Primavera	irritant, sensitizer		★★☆☆
Purpleheart	irritant, sensitizer, nausea		★★☆☆
Quebracho	irritant, nausea, NPC (rare)		★★☆☆
Quina	irritant		★★☆☆
Ramin	irritant, splinters go septic, asthma		★★☆☆
Redwood	irritant, sensitizer, asthma, HP, NPC (rare)		★★☆☆
Rengas	sap is strongly irritating, blisters, ulcers, fever, constitutional effects		★★★★
Rhodesian Teak	irritant		★★☆☆

Toxicity of Wood Species Sawdust to Humans

Rose	irritant, pink eye	 	????
Butternut (<i>Blepharocarya involucrigera</i>)			
Rosewood (Dalbergia genus)	irritant, sensitizer, asthma	  	★★★★★
Rosewood, Brazilian	irritant, sensitizer	  	★★★★★
Rosewood, East Indian	irritant, sensitizer		★★★★★
Rosewood, Siamese	irritant, rash, hives, sensitizer		★★★★★
Rubberwood	irritant, sensitizer (latex allergy)		★★☆☆☆
Saffron-Heart (<i>Halfordia scleroxyloa</i>)	irritant, splinters go septic, lung congestion	 	????
Santa Maria (<i>Calophyllum brasiliense</i>)	irritant, fainting, insomnia, kidney damage	 	????
Sassafras	sensitizer, nausea, respiratory, direct toxin , NPC (rare)	 	★☆☆☆☆
Sapele	irritant, sneezing	 	????
Satinwood, East Indian	irritant, headache, diarrhea, sensitizer	  	★★★★☆
Satinwood, West Indian	irritant, diarrhea, rash, blisters, sensitizer		★★★★☆
Shittim (<i>Acacia seyal</i>)	irritant, coughing	 	????

Toxicity of Wood Species Sawdust to Humans

Silky Oak, Northern	irritant		★★☆☆
Silky Oak, Southern	irritant, sap may cause blistering of skin, eyelid inflammation		★★★★☆
Simarouba (<i>Simarouba amara</i>)	irritant		????
Sissoo	irritant		★★☆☆
Slash Pine	irritant, asthma		????
Snakewood	irritant		★★☆☆
Sneezewood	irritant, oils within the wood cause violent sneezing		★★★★
Spruce (<i>Picea</i> genus)	irritant, sensitizer		★☆☆☆
Sucupira (<i>Bowdichia nitida</i>)	irritant		????
Sugi	unspecified allergic reactions		★★☆☆
Sumac (<i>Rhus</i> spp.)	irritant, bark may cause blisters		★☆☆☆
Sweetgum	irritant		★☆☆☆
Tali (<i>Erythrophleum suaveolens</i>)	irritant, headache, giddiness, nausea, disorders of bowels and stomach		????
Tambootie	irritant, diarrhea, blindness, direct toxin		★★★★

Toxicity of Wood Species Sawdust to Humans

Tatajuba	irritant		☆☆☆☆
Teak	irritant, sensitizer, rash, nausea, asthma, vision effects, pink eye, HP	  	★★★★☆
Thuya	irritant	 	★★★★☆
Tiama (<i>Entandrophragma angolense</i>)	irritant		????
Turpentine	irritant, swelling	 	????
Tzalam	cold-like symptoms		☆☆☆☆
Utile	irritant		????
Verawood	sneezing		★★★★☆
Walnut, African	irritant, systemic effects, NPC (rare)	  	★★★★☆
Walnut, Black	irritant, sensitizer, NPC (rare)	  	★★★★☆
Walnut, English	irritant, NPC (rare)	  	★★★★☆
Wamara	irritant	 	★★★★☆
Wenge	irritant, sensitizer, splinters go septic, nervous system effects, abdominal cramps	  	★★★★☆
Western Hemlock	irritant, NPC (rare)		????

Toxicity of Wood Species Sawdust to Humans

Western Juniper (<i>Juniperus occidentalis</i>)	irritant	 	★★★★☆
White Peroba (<i>Paratecoma peroba</i>)	irritant, sensitizer, asthma	  	?????
Willow (<i>Salix</i> spp.)	sensitizer, nausea, NPC (rare)		★☆☆☆☆
Yew (<i>Taxus</i> spp.) ⚠	irritant, nausea, headache, cardiac effects, direct toxin	   	★★★★★
Yellowheart	irritant		★★★☆☆
Zebrawood	sensitizer	 	★★★☆☆
Ziricote	cross reactions possible once sensitivity to other woods have developed		★★★☆☆
Zitan	irritant, vomiting		★★★☆☆

From: [Jaime Happ](#)
To: [Hartman, Susan](#); [Volenski, Dina](#)
Subject: March 17 planning commission meeting for tree processing- concern from neighbor
Date: Tuesday, March 17, 2020 11:57:30 AM

Dear Council,

Thank you for your leadership these past 17 months. You continue to listen to your community you represent, and give us one more wonderful reason to come home and rebuild. Thank you for hearing the concerns of neighbors regarding the tree processing proposal on the Anderson property on Skyway.

My property shares a property line with this property (145 Jay Bird Lane). Since the fire we relocated our property markers, only to have equipment operators hired from Anderson to prepare the property for industrial use, come over the property line and cover up/destroy our shared markers. I do not have confidence that our land will be respected as it has not thus far. I do not hold ill feelings, but am concerned about this location.

I was concerned when it was proposed for a concrete processing site earlier in our clean up, and my concerns remain. This property was first zoned as green space and then was later rezoned as residential, but there is a reason that it is not industrial or commercial. Please honor that zoning and the residents that have purchased property based on that zoning, and currently live there or are rebuilding. This would sets a precedence for future commercial and industrial use of not only this property but others. It is essential in the rebuild of our community that we think to the future repercussions of the decisions we make now. I know this may be perceived as "not in my backyard," but this doesn't need to happen in ANY Paradise residents backyard. Many industrial zoned properties have lost their businesses, and it would be a win-win to propose using an already correctly zoned bussiness/industrial property to serve the town as a whole, the business land owner/economy, and the residential properties and those living on them. A great example of one of these properties is the worm farm on Neal road. It is far from any residence.

Processing trees is not a process that is free of health risks, and the residence of Paradise do not deserve to be living near this contamination. Small dust particles often cause lung irritation and decrease lung capacity. My entire neighborhood is 60 years old or older, or have small children, both who are at high risk.

On a final note, this is a plot of land that is the first impression as people enter Paradise. This is not good for morale. What's worse than seeing the beloved trees of Paradise cut down, is the reminder of how devastating it was everytime one drives up the skyway.

Our town can do better. Many decisions have had to be made quickly, but I encourage the council to not make hasty decisions that will hurt it's residents, when there are alternatives.

Thank you for hearing my concern.

Sincerely, Jaime Happ

From: [Karl Boles](#)
To: [Volenski, Dina](#); [Hartman, Susan](#)
Subject: Town Of Paradise Planning Commission Meeting, 3/17/2020 Comments Log Storage Yard
Date: Monday, March 16, 2020 8:54:47 PM

Town Of Paradise, Planning Commission

This is an email concerning the temporary use permit for Anderson Brothers Corp. PL19-00383 as advised to send per Dina Volenski's Planning Commission Meeting announcement for 3/17/2020.

The Blue Oak Terrace Mutual Water Co. (BOTMWC) is highly concerned with the extremely contaminated dust that will be generated by hauling wood to and from, and cutting/chipping/grinding wood within the proposed Anderson Brothers logging operation.

The engineering map makes note of the center of the operation being 1,500 ft. from any Blue Oak Terrace (BOT) subdivision residence. True, for the center of the map. Why the 1,500 ft. is even being noted is unknown and suspicious. The BOTMWC facilities, water supply and water tank reservoirs, based on that map location, are a slightly shorter distance, from the center of the project site. The fact of the matter is that distances should be measured from property borders, and the BOTMWC facilities of concern are only 200 ft. from the nearest border of this proposed project.

The Town of Paradise (TOP) is well aware of the contamination caused by fires as addressed in its Title 8 Health & Safety Chapter 8.59 Removal of Fire Damaged Debris from Private Property Following the Camp Fire. In Sec. 8.59.010 Emergency Findings, Paragraphs H.-L. the strong potential for contamination to the public and the environment is presented. As stated throughout the paragraphs, the debris and ash can contain hazardous substances, exposure can result in significant health issues, and that the release of these toxic substances are well documented. This hazardous and toxic debris and ash is not only on the residue products of homes, but on the ground as well as on trees, particularly tree bark which is likely saturated with these highly hazardous substances. To the point of the severity of the contamination, per Paragraph J. "Uncontrolled hazardous materials and debris pose significant threats to public health through inhalation of dust particles and contamination of drinking water supplies."

Sec. 8.59.020 Paragraph H. Defines a Temporary Log Storage Yard. In that paragraph it is stated that "No structural fire debris or hazardous materials may be brought onto or stored in the yard including any that may have been deposited on logs or vegetation." That statement exemplifies that the TOP is well aware that logs and other wood materials can have hazardous chemicals deposited on them.

Which immediately brings to question:

- 1) As this logging operation is for private citizens, what procedures does the TOP have to help individuals prevent suffering toxic contamination while cleaning their own lands?
- 2) The Temporary Log Storage Yard Project Description suggests the potential for very high volumes of traffic hauling potentially hazardous contaminated wood materials. What procedures are in place to prevent the spread of these contaminated materials from vehicles hauling wood while traveling along TOP and/or County roadways?
- 3) The Temporary Log Storage Yard Project Description and the TOP Removal of Fire Damaged

Debris Code does not specify how to, or describe any procedures that are in place to, verify that every tree accepted for the logging operations is free of any hazardous materials, as required by code as stated above. What are those procedures?

Although these questions may be dismissed, the fact remains that air pollution is an extreme concern for us as our water facilities are relatively close by. Cutting of a couple of trees that are contaminated may not be a problem, but here, we're discussing the potential problems that 1,000's of contaminated trees or other wood materials may produce in a localized area. Even though there are some minor procedures listed, and that the operator needs to follow, it only would take one accidental release to potentially contaminate the BOTMWC system. Why would the TOP put an operation such as this in an area that has quite a few surviving homes around it, relative to the rest of the town, and subject them to the potential hazardous problems is not understood. The potential hazardous toxicity to people of this operation is apparently of no concern or just being ignored.

The Blue Oak Terrace Mutual Water Co. fully realizes the importance of getting our Paradise cleaned up. The issue is just one, is this the most effective location for all the potential problems it can and probably will cause?

Thank you for your time, and appreciate being able to email this considering what is going on.

Karl Boles

President / General Manager

Blue Oak Terrace Mutual Water Co.

From: [Mike Cosentino](#)
To: [Bolin, Greg](#); [Bolin, Greg](#); [Hartman, Susan](#); [Volenski, Dina](#); [Volenski, Dina](#)
Subject: Proposed Logging Site
Date: Monday, March 16, 2020 5:29:26 PM

Good afternoon,

I am writing in reference to the proposed temporary logging storage and processing yard on Butte County parcels numbers 051-230-047, 054, 055, 051-240-011 and 012 within the town of Paradise.

My concern is that of safety.

I was wondering if anyone has done a Traffic Study. I personally have been driving Class A vehicles for more than 35 years now. Having an 80,000lbs truck, 75 feet long traveling down the Skyway at 45-50mph and then trying to turn onto the Cross Road is undoubtedly going to cause accidents or even worse. It will take more than two football fields in length to slow that vehicle down enough to make that turn. The turn itself is so tight I have a hard time in my pick up truck with a small trailer. And forget about it if there is another vehicle trying to come off the Cross Road onto the Skyway heading to Chico. The Cross Road is not a suitable road in size for a semi-truck. Then we have the problem of that same truck now wanting to cross the Skyway to head up towards Paradise, crossing 50-55mph traffic to get over and unload at the site.

The site is also lacking ingress and egress lanes to accommodate a semi. There is no way a truck will be able to merge onto the Skyway at 50mph coming out of the planned site.

Why wouldn't the use of the Tuscan Ridge Golf Course be a logical site for such a project? They have already figured out the traffic issue, no one lives anywhere near the golf course. It already has a parking area set up.

I truly hope that the traffic piece has been factored in. I'm not sure how you would make this site practical to be bringing in logging trucks. Please consider my safety issues when making the decision to allow this site on the Skyway.

Thank you
Mike Cosentino
105 Tuscan Drive
Paradise Ca 95969

From: [Mike Cosentino](#)
To: [Hartman, Susan](#); [Bolin, Greg](#)
Cc: [Volenski, Dina](#)
Subject: Re: Proposed Log Site
Date: Monday, March 16, 2020 5:01:00 PM

Good afternoon,

It was brought to the attention of the Blue Oaks Terrace Home Owners Association that a committee was recently formed calling themselves the "Blue Oak Terrace Advisory Committee". This committee is not in any way affiliated with the Blue Oaks Terrace Home Owners Association. The BOTHOA does not share the same views as this committee.

Thank you

Mike Cosentino
President Blue Oaks Terrace Home Owners Association

From: [Nick Herrera](#)
To: [Volenski, Dina](#)
Cc: [Hartman, Susan](#)
Subject: Planning Commission Hearing 3-17-2020
Date: Sunday, March 15, 2020 11:20:17 AM

Please submit my below concerns to the commission.

To the Planning Commission

I am asking for you to consider rejecting the proposal for the Skyway wood storage and processing plant. I oppose the proposal for the following reasons:

First, the project proposes a health and safety risk to the residents and motorists in the area. This type of industrial operation would produce sound, air, soil, water, and visual pollution. The Skyway location is directly adjacent to not only my home, which survived the camp fire, but also to one of the only subdivisions that was not completely destroyed by the fire. Out of 31 pre existing homes, Blue Oak Terrace has 24 homes which are still currently occupied and some under construction.

Also near by, some of the cross roads condominiums are still in tact as well as some homes which existed and are being rebuilt on and near Neil Rd, just to name a few areas.

Next, this property is designated in the Town's general plan as "Scenic Highway Corridor". It is along one of the towns three existing gateways. This particular gateway connects Chico to Paradise. The other two gateways, Clark and Neal, already have industrial sites. It is imperative to entice the rebuilding of our residential areas so the commercial can eventually return and the Town can self sustain again. Having industrial sites at every gateway will no doubt deter quality growth of the Town.

Additionally, the proposed site does not have the proper ingress or egress, deceleration or acceleration lanes off the high speed traffic. The operation will have slow heavy trucks entering and exiting the Skyway causing a hazard to all motorists. There are plenty of suitable sites in already designated industrial areas with the proper ingress and egress for this type of operation.

Next, With the storage of the already dried out wood, this would undoubtedly provide a concentration of fire fuel.

Moreover, the developer seems to have little regard for the problems and hazards created by his projects. After the camp fire, he took the opportunity to completely strip the land of both burnt and living trees and bushes, processing them onsite with no consideration for the environment causing air, water, and noise pollution. He had inadequate erosion control and took no measures to control dust and debris from the clearing and tub grinding operation. To my knowledge there is not PID water service or at both locations to provide dust control or Fire Protection. Additionally, he had previously planned to process concrete and metal on that site. Many expressed their concerns and luckily that was stopped. If you go down Neal Rd past the dump you can see a concrete processing operation. There are still mountains of contaminated concrete piled high. The developer also started a wood processing operation between the Skyway's, that was all done without permits. As previously mentioned, the wood processing causes a large amount of debris. The last time I looked, he still had not cleaned up the mess from that small unpermitted wood processing operation. I would hate to see the residual from an abandoned large wood processing operation.

I know he is asking for a temporary use permit, but many times extensions are granted and things can become permanent.

Finally, I am aware that when he previously proposed a plan to process concrete at this site, he offered the Town a portion of his profits. I hope this is not the case again trying to sway a vote in his favor.

I believe it is the will of the Town to enhance our community and not degrade it with a unsightly industrial projects at the entrance of our Town. The developer is very capable of providing residential housing. He has built out several subdivisions. If he wants to enhance our Town, his talents would be very beneficial providing housing that can repopulate.

For all the above reasons, I am strongly oppose to placing this project in the Skyway area. A more suitable location to place this operation would be an industrial area. Thank you for your consideration,

Nick Herrera
45 year resident of Paradise
Engineering Contractor

Sent from my iPhone

From: [Hartman, Susan](#)
To: [Volenski, Dina](#)
Subject: FW: Planning Commission Hearing For Request for PL19-00383 Anderson Brothers Corp. Temporary Use Permit
Date: Thursday, April 09, 2020 12:20:31 PM
Attachments: [Log Storage & Processing Yard letter to the Town.docx](#)



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Pam Hartley <pamhartley@sbcglobal.net>
Sent: Tuesday, March 17, 2020 5:07 PM
To: Hartman, Susan <shartman@townofparadise.com>; dvolensky@townofparadise.com
Subject: Planning Commission Hearing For Request for PL19-00383 Anderson Brothers Corp. Temporary Use Permit

Hello,

I understand that the March 17, 2020 Planning Commission Meeting may be postponed and that residents are encouraged to email comments to you prior to the meeting.

Please see the attached, which are my comments and concerns regarding the Anderson Brothers Corp. Temporary Use Permit.

Thank you,

*Pam Hartley, Confectioner
Joy Lyn's Candies
Paradise, CA
530-520-8867*

March 2, 2020

Town of Paradise
5555 Skyway
Paradise, CA 95969

To:

Town Manager, Lauren Gill
Development Services Department, Susan Hartman
Mayor, Greg Bolin
Vice Mayor, Michael Zuccolillo
Council Member, Melissa Schuster
Council Member, Jody Jones
Council Member, Steve Crowder

From:

Pam & Bill Hartley
136 Jade Lane
Paradise, CA 95969

RE: PL19-00383 Anderson Brothers Corp. Temporary Use Permit – “Log Storage & Processing Yard”

We are requesting a formal hearing on the Use Permit for the proposed “Log Storage & Processing Yard” on Skyway. We are requesting the hearing to express our deep concerns for this project as follows.

- The proposed site of the “Log Storage & Processing Yard” off Skyway as you enter the Town of Paradise is an inappropriate use of the land for safety, traffic and environmental reasons.
- The property is zoned RR, which is Rural Residential. It is not zoned for commercial or industrial use.
- Allowing this type of Use Permit would set a precedence for use of land that is not zoned for commercial or industrial use.
- This project would cause dangerous environmental impacts to the entire area and neighborhood for the wetlands, erosion, water quality, noise, dust and fire hazard.
- Even though this project is supposed to be “temporary” there are no assurances that if the project is not completed on time that an extension would be granted and set precedence for land to be used in violation of the zoned usage and detriment to the environment.
- The property owner, Dan Anderson, has already demonstrated that he is an irresponsible and neglectful property owner because over the years he failed to clear the large overgrown brush, weeds, and dead trees that helped ignite our neighborhood. And then after the fire, he clear cut and graded the property without proper permits causing environmental impacts, toxic dust and

noise at all hours. With this type of behavior, why would Mr. Anderson adhere to any standards and requirements of this Use Permit?

- Since Mr. Anderson has already disturbed the area without proper environmental studies and permits, we are concerned about the environmental impact to the creek that runs through our property. We would like an environmental study be started to determine the environmental impacts to the land and water.
- Our property value has decreased because of the clear cutting and grading Mr. Anderson has already completed. Having a “Log Storage & Processing Yard” in our backyard would decrease our value and desirability of our neighborhood substantially.
- There are other more suitable areas in Paradise that are zoned properly for commercial and industrial use that can be used for log storage and processing that would not impact the environment, traffic and our neighborhood.
- This is the “Gateway” to our community and an eye-sore log storage and processing yard is not the image of Paradise that we want to project to our residence and visitors. This is not the proper use of this land, temporary or not.

We are calling for a public hearing on this issue.

Sincerely,

Pam & Bill Hartley

pamhartley@sbcglobal.net

hartleybill@sbcglobal.net

From: [Hartman, Susan](#)
To: [Theresa Mcdonald](#)
Cc: [Volenski, Dina](#)
Subject: RE: Anderson Brothers Corp, Temporary Use Permit (PL19-00383) Application
Date: Tuesday, March 17, 2020 4:07:00 PM
Attachments: [image002.jpg](#)

Ms. McDonald,

We no longer anticipate having a quorum for tonight's Commission meeting. As such we are making preparations to open the meeting at 6pm in order to postpone all agenda items to the next regularly scheduled Commission meeting (April 21st). You're welcome to watch online on our website at townofparadise.com (there's button at the top of the home page to watch meetings live) or you can still come in person, though if all +/25 seats in the building are taken you'll be asked to wait outside.

We appreciate you taking the time to provide comments regarding the proposed Anderson Temporary Use Permit and will make sure they are included in the Commission's April agenda packet.

Thank you,



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Theresa Mcdonald <tmcdonald120@yahoo.com>
Sent: Tuesday, March 17, 2020 4:02 PM
To: Hartman, Susan <shartman@townofparadise.com>
Subject: Anderson Brothers Corp, Temporary Use Permit (PL19-00383) Application

I am contacting you regarding the Planning Commission Meeting of 3/17/2020 to discuss this application. I am a property owner on Russell Drive

My major concern is the traffic impact such a development would have on traffic on the Skyway. Since the project would be processing logs coming down Skyway, every truck would be required to slow significantly in order to make the left hand turn onto Crossroads to cross over and reach the entrance to the yard. How is that going to be handled, without running the risk of collision of huge trucks pulling heavy loads with resident's cars as they drive up and down Skyway to Chico? How will it impact the delivery of modular homes or manufactured homes that are coming up Skyway from Chico or Highway 99?

I saw the comments from the Blue Oaks Terrace group, and objections to many other property owners in the area. I don't know when Anderson Brothers Corp. acquired the property in question, but they knew the zoning was residential not industrial. I ask you to reject the application. The residents of the Town of Paradise have enough to put up with already, with skyrocketing building costs, water service problems, utility connection delays and building permit issues. Those of us who may still be considering rebuilding on our properties in the immediate neighborhood

of the project do not deserve to have the added reasonable concerns about pollution, traffic, erosion thrust upon us. We certainly don't deserve to have the incredible additional fire risk such a project would pose to our properties. After all, isn't part of the Town's purpose in considering the project to be able to get burned trees out of town because they pose an unnecessary fire hazard? Please reject this project. While it might be appropriate in a commercial zone, it is not appropriate in a residential neighborhood.

Thank you,
Theresa McDonald
5044 Russell Drive
Paraside, CA 95969

Mailing Address
Theresa McDonald
1832 Knights Ferry Dr.
Plumas Lake, CA 95961

From: [Paul Farsai](#)
To: [Hartman, Susan](#); [Volenski, Dina](#)
Cc: [Jim Flanegin](#); [alledford33@gmail.com](#); [fspm@fullservicemanagement.net](#); [mssadessa@aol.com](#); [brian@airehartinc.com](#); [shelley_14@hotmail.com](#); [rhw45@sbcglobal.net](#); [timothyearlwilliams@gmail.com](#); [nanaloves7@att.net](#); [Peggy Evanson](#); ["homeinsteadchico@gmail.com](#); [bbowen1744@yahoo.com](#); [kalanirivera@gmail.com](#); [kimfreedle@gmail.com](#); [hudsons95969@gmail.com](#); [dale@cwelectrical.com](#); [wpcamusi@comcast.net](#); [alledford@gmail.com](#); [desiandtony@comcast.net](#); [klnm6724@gmail.com](#); [shaggwe@gmail.com](#); [gshirley123@hotmail.com](#); [larrymohlenpage@yahoo.com](#); [wendy@executivehomeschico.com](#); [lisa_borchert@hotmail.com](#); [joannelougaris@att.net](#); [candy5977@gmail.com](#); [harding10@comcast.net](#); [terriakers@gmail.com](#); [sholtom@ocesd.net](#); [tlmhook@yahoo.com](#); [suebowpv@aol.com](#); [eganpainting@gmail.com](#); [amber@jesuscenter.org](#); [lnvmyrick@hotmail.com](#); [karl.boles@att.net](#); [karl.boles55@gmail.com](#); [Paul Farsai](#); [Brent Moore](#); [emily holtom](#); [Cosentino Mike](#); [Clay Carter](#); [Nathan & Emily Vail](#); [Shawn](#); [chenoarivera@gmail.com](#); [Dan Roberts](#); [rwulbern@yahoo.com](#); [Debbi Neves](#)
Subject: RE: Notice of Pending Temporary Use Permit.-Information
Date: Saturday, March 14, 2020 1:28:54 PM
Attachments: [image003.jpg](#)
[image005.png](#)
[mem_comment_letter_response_anderson_log_storage_yard_temporary_use_permit_BLM_03142020_\(002\).pdf](#)
Importance: High

Hi Susan and Dina,

Please see attached **BLUE OAKS TERRACE NEIGHBORHOOD ADVISORY COMMITTEE RESPONSE TO TEMPORARY USE PERMIT REQUEST PL19-00383 ANDERSON BROTHERS CORP. TO ESTABLISH TEMPORARY LOG STORAGE AND PROCESSING YARD ON BUTTE COUNTY ASSESSOR'S PARCEL NUMBERS: 051-230-047, 054, 055, 051- 240-011 & 012 WITHIN THE TOWN OF PARADISE** for Planning Commission consideration.

Regards,

Paul Farsai
Broker; President



Cell 530-342-7337

Fax 415-762-1355

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arising from its use. Thank you. HOV-121

From: Hartman, Susan <shartman@townofparadise.com>
Sent: Friday, March 13, 2020 3:46 PM
To: Paul Farsai <paul@catopbrokers.com>
Subject: Re: Notice of Pending Temporary Use Permit.-Information

Paul,

While the meeting cannot be postponed at a staff level and as of yesterday the meeting is still scheduled to go on, to accommodate the situation the meeting will be live streamed on our website at townofparadise.com. If you have written comments about the Anderson Temporary Use Permit that you would like to submit for Planning Commission consideration, please email those in to myself or the Town Clerk, Dina Volenski, at dvolenski@townofparadise.com before 5:00 p.m. on Tuesday and we'll make sure they get them. We will let them know how many requests for postponement we've received as well.

Plans for the Tuesday meeting may change between now and Tuesday so please feel free to check back in.

Thank you for reaching out,

Susan Hartman
Community Development Director
Town of Paradise

From: Paul Farsai <paul@catopbrokers.com>
Sent: Friday, March 13, 2020 3:27:22 PM
To: Hartman, Susan <shartman@townofparadise.com>
Cc: joannelougaris <joannelougaris@att.net>; alledford33@gmail.com <alledford33@gmail.com>; Brenda Bowen <bbowen1744@yahoo.com>; Peggy Evanson <peggy@catopbrokers.com>
Subject: FW: Notice of Pending Temporary Use Permit.-Information

Hello Susan,

We are respectfully requesting that you postponed the 17th meeting at least 30 days because of the Corona Virous situation so we feel comfortable to attend and voice our opinion on the Anderson request.

Regards,

*Paul Farsai
Broker; President*



Cell 530-342-7337

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Comment Letter

BLUE OAKS TERRACE NEIGHBORHOOD ADVISORY COMMITTEE RESPONSE TO TEMPORARY USE PERMIT REQUEST PL19-00383 ANDERSON BROTHERS CORP. TO ESTABLISH TEMPORARY LOG STORAGE AND PROCESSING YARD ON BUTTE COUNTY ASSESSOR'S PARCEL NUMBERS: 051-230-047, 054, 055, 051-240-011 & 012 WITHIN THE TOWN OF PARADISE

To: Susan Hartman, Community Development Director
Town of Paradise
Development Services Department
5555 Skyway
Paradise, CA 95969

From: Paul Farsai, Homeowner
Blue Oaks Terrace
Neighborhood Advisory Committee

Date: March 14, 2020

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Town of Paradise Consideration to Issue a Temporary Use Permit under the Urgency Ordinance Number 590 adopted December 10, 2019, amending the Municipal Code Chapter 8.59-Removal of Fire Damaged Debris from Private Property following the Camp Fire

Thank you for the opportunity to comment on the Anderson Brothers Corporation request to establish a Temporary Log Storage and Processing Yard under the provisions of the Urgency Ordinance Number 590, amending Paradise Municipal Code Chapter 8.59-Removal of Fire Damage Debris from Private Property following the Camp Fire which sets forth administrative and review requirements for the issuance of Temporary Use Permits under the Urgency Ordinance.

The following comments are meant as guidance for the Town of Paradise in administering the Municipal Code and giving consideration to issue a Temporary Use Permit to Anderson Brothers to establish and operate a Temporary Log Storage and Processing Yard adjacent to the Blue Oaks Terrace Neighborhood, and the information requested is necessary to: 1) more fully understand the project, 2) assess whether the facility will be constructed and operated in compliance with applicable regulations, 3) assess whether the project will adversely impact the public health, safety, convenience or create undue traffic hazards or result in significant environmental impacts, 4) assess whether the current information and reports submitted to the Town concerning establishment and operation of a Temporary Log Storage and Processing Yard fully discloses the impacts of the proposed project and effects on surrounding residential neighborhoods (Blue Oaks Terrace), 5) assess the need for conditions to be applied to the Temporary Use Permit if approved and issued to reduce impacts to a level that it comports with Municipal Code Chapter 8.59, if necessary. The following paragraphs are organized by findings the Neighborhood Advisory Committee identified and comments on the adequacy of information

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

presented to support approval of the requested Temporary Use Permit to meet the data requirements and the analysis to support the Town's decision regarding the Temporary Use Permit and subsequent establishment and operation of a Temporary Log Storage and Processing Yard. Blue Oaks Terrace Neighborhood Advisory Committee would request the Town consider the following findings for justification to deny the requested Temporary Use Permit. Or if the Town wishes to approve the requested Temporary Use Permit, we request the following data and analysis prior to the Town approving the issuance of the requested Temporary Use Permit.

MUNICIPAL CODE CHAPTER 8.59 / URGENCY ORDINANCE 569 - NO LONGER VALID

The requested Temporary Use Permit by Anderson Brothers Corporation is based on the authority granted to the Town Manager or his/her designee to issue Temporary Use Permits under the Urgency Ordinance Number 590 adopted in December of 2019 and amending the Town's Municipal Code Chapter 8.59-Removal of Fire Damaged Debris from Private Property Following the Camp Fire. The Urgency Ordinance 590 declared the following findings in justifying the urgency of the ordinance, and the ability of the Town to expand the available immunities from liability for response-related activities and suspend the law which would normally control land uses such as the Town's Zoning Code, General Plan Policies required by California Government Code, etc....

- Ordinance necessary for immediate preservation of the public peace, health, and safety
- Conditions of extreme peril to the safety of persons and property within the town were caused by the Camp Fire, commencing on the eighth day of November 2018
- California Government Code Section 8630 et seq. empowers the director of emergency services to proclaim the existence of a local emergency when the town is affected or likely to be affected by a public calamity, subject to ratification by the town council at the earliest practicable time
- The ordinance goes on to declare over ten citations of clauses reciting the circumstances that legally justify the emergency proclamation and the Urgency Ordinance 590.

The Urgency Ordinance 590 invokes *California Government Code 8630 et. seq* as the state enabling legislation that grants the Town authority to adopt Urgency Ordinance 590. This same Government Code also sets forth the obligation of the Town regarding administration of local emergency to renew the emergency proclamation under which the Urgency Ordinance 590 is created. As stated in the *Emergency Services Act, Article 14, Section 8630 of the California Government Code* (Proclamation by local governing body; Duration; Review):

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

“(a) A local emergency may be proclaimed only by the governing body of a city, county, or city and county, or by an official designated by ordinance adopted by that governing body.

(b) Whenever a local emergency is proclaimed by an official designated by ordinance, the local emergency shall not remain in effect for a period in excess of seven (7) days unless it has been ratified by the governing body.

(c) (1) The governing body shall review, at its regularly scheduled meetings until the local emergency is terminated, the need for continuing the local emergency. However, in no event shall a review take place more than 21 days after the previous review. (2) Notwithstanding paragraph 1, if the governing body meets weekly, it shall review the need for continuing the local emergency at least every fourteen (14) days, until the Local Emergency is terminated.

(d) The governing body shall proclaim the termination of the local emergency at the earliest possible date that conditions warrant.”

In accordance to the above instructions and administrative requirements of the Town regarding emergency proclamations and on-going validating of urgency ordinances is predicated upon the Town Council reviewing and declaring the local emergency is continuing every 14 days. The Town Council has not reviewed the current conditions and made the necessary findings that the Town conditions are the same and thus require the need for continuing the local emergency status. Thus, based on California Government Code the Urgency Ordinance 590 being used to issue the Temporary Use Permit is no longer valid and the declared local emergency is terminated by statute.

To further support that the Emergency Proclamation is no longer in effect and valid due to the lack of circumstances that constitute an emergency by definition of “Emergency” made in the *California Public Resources Code, Division 13. Environmental Quality, Chapter 2.5 Definitions, Section 201060.3* which states:

“Emergency means a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. “Emergency” includes such occurrences as fire, flood, earthquake, or other soil or geologic movements, as well as such occurrences as riot, accident, or sabotage.”

This definition “limits an emergency to an occurrence” not a condition, and the occurrence must involve a clear and imminent danger, demanding immediate action. An occurrence is something that occurs, happens, or takes place, an event or incident like the Camp Fire. A condition is a

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

mode or state of being. A state of being may consist of many occurrences. For example, burnt trees is the condition of a live tree being burned by fire, such as in the occurrence of the Camp Fire. The condition of burnt trees after a wildfire is an expected outcome and does not constitute an emergency occurrence, but rather a predictable and manageable condition.

Thousands of acres of burnt pine trees are left behind by wildfires in California, yet the state has never declared the cutting down burnt trees, grinding, and processing to wood chips an emergency occurrence that requires immediate action under an Emergency Proclamation/Urgency Ordinance. Based on the length of time between November 8, 2018 (Camp Fire) and March 17, 2020, (Public Hearing for Temporary Use Permit) a period of sixteen (16) months to request and act on a Temporary Use Permit to establish and operate a temporary log storage and processing yard, does not lend itself to immediate need resulting in an emergency action required under an urgency ordinance adopted pursuant to Local and State Government Emergency Proclamations. There is no forest management practice protocol nor urban forest management protocol that calls for the immediate action of cutting down and chipping burnt trees after a wildfire, and no known statistics of hazards risks to the public from falling burnt trees that rise to the magnitude that would compel an emergency immediate action of approving a temporary log storage and processing yard sixteen (16) months after the emergency occurrence.

California Government Code Section 8630 (d) "The governing body shall proclaim the termination of the local emergency at the earliest possible date that conditions warrant." The Town is compelled to terminate the local emergency as soon as practicable. It has been over sixteen (16) months since the Camp Fire and the Town is well on its way to recovery with public utilities back up, building permits issued and new home construction under way. The Presidential Emergency Proclamation for the Camp Fire has been terminated in accordance to 50 U.S. Code Section 1622. National Emergencies. (d) Automatic Termination of National Emergency, Continuation Notice from President to Congress; Publication in Federal Register. At the August 8, 2019, Town of Paradise Recovery Report Card Meeting, Tina Walker, Cal OES Acting Assistant Director for Recovery, announced that physical debris removal is 75% complete and should be completed by the end of September 2019. She also noted that the Camp Fire recovery process is moving along at a much quicker rate than other similar incidents in Australia and Texas. Tina Walker also stated that plans are being implemented to "*stand up a tree removal program to move forward with getting those hazardous trees off your properties.*" Based on the above factors it is clear the emergency is over, and the current conditions warrant emergency termination.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town make the following Findings and Deny the Request for a Temporary Use Permit based on the following:

- Urgency Ordinance No. 590 and Town Municipal Code Chapter 8.59 – “Removal of Fire Damaged Debris from Private Property Following the Camp Fire”, is No Longer Valid and is terminated in conjunction of the emergency proclamations terminations
- Emergency Proclamation occurs only during the response phase when the facts support the declaration or proclamation and requires immediate response and action
- Town Council did not review the need for continuing the local emergency every 14 days as required by *California Government Code 8630*, to support the Urgency Ordinance 590 and continue the need for such urgency ordinance.
- Town Council declared Urgency Ordinance 590 was necessary for immediate preservation of public peace, health, and safety based on the Camp Fire Emergency and the Camp Fire Emergency is over in accordance to the definition of “Emergency” established by *California Public Resources Code, Section 201060.3*
- The circumstances that legally justified the Urgency Ordinance 590 no longer exist
- Issuance of the requested Temporary Use Permit would be an improper suspension of zoning laws, Town General Plan, regulatory statues, orders, rules, or regulations and abuse of the Town’s police powers
- The Town no longer qualifies for immunities under the *Emergency Services Act, California Government Code Section 8655*, and will be liable for discretionary actions in issuance of a Temporary Use Permit

Should the Town still find the Urgency Ordinance 590 Valid and not Concur with the Blue Oaks Terrace Neighborhood Advisory Committee, Please Consider the Following:

TOWN LIMITED TO FIVE (5) TEMPORARY LOG STORAGE YARD LOCATIONS

The Urgency Ordinance 590 limits the number of temporary log storage yards to a maximum of five (5) yards within the incorporated area of the Town of Paradise (*Town Municipal Code, Chapter 8.59.080 Temporary log storage yards, (A) Maximum Number of Sites. The number of temporary log storage yards shall be capped at a maximum of five for the incorporated area of the Town of Paradise*). Based on a preliminary Windshield survey of major roads within the

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

Town of Paradise the Blue Oaks Terrace Neighborhood Advisory Committee identified twenty-two (22) Temporary Log Storage Yards in operation on March 6, 2020 at the following locations:

- South side of 5649 Jewel Road
- Next to 5604 Jewell Road
- 771 East Oak Street
- South of Scottwood Road and Pearson Road
- 5686 Scottwood Road
- 6480 Clark Road
- South side of Easy Street and Clark Road
- 1117 Noffsinger Lane
- 5365 Clark Road
- 1617 Pearson Road
- American Way and Clark Road
- 5276 California Way
- 5501 Libby Road
- 1405 West Dottie Lane
- 5319 Libby Road
- 6480 Clark Road
- Lovely Lane and Clark Road
- 8585 Clark Road
- 7088 Clark Road
- Foothill Lumber Company off Wagstaff Road

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- 6280 Pentz Road
- Northwest corner of Pentz Road and Merrill Road

See following Photo Log of existing Log Storage Yards located in the Town of Paradise.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

TOWN OF PARADISE TEMPORARY LOG STORAGE YARDS PHOTO LOG



Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

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Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

TOWN OF PARADISE TEMPORARY LOG STORAGE YARDS PHOTO LOG



Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

TOWN OF PARADISE TEMPORARY LOG STORAGE YARDS PHOTO LOG



By the Urgency Ordinance 590 directive, the Town is responsible to ensure only five (5) Temporary Log Storage Yards are in operation within the incorporated town limits. Due to the fact that the Town already has over twenty-two (22) or more operating Temporary Log Storage Yards, the Anderson Brothers Corporation request for a Temporary Use Permit to establish and operate another Temporary Log Storage and Processing Yard is prohibitive.

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town make the following Findings and Deny the Request for a Temporary Use Permit based on the following:

- No new Temporary Use Permit for a Temporary Log Storage Yard is permissible under the Urgency Ordinance 590, until such time the Town has less than five (5) Temporary Log Storage Yards

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- Based on Windshield Surveys of the Town of Paradise, and evidence presented by the Blue Oaks Terrace Neighborhood Advisory Committee the Town cannot verify current compliance of only five Temporary Log Storage Yards operating within the incorporated limits of the Town as stipulated by the Urgency Ordinance 590.
- Until such time the Town's Zoning Code Enforcement can shut down illegal Temporary Log Storage Yards and verify and validate the existence of only four (4) legal operating Temporary Log Storage Yards no fifth permit can be issued.
- Anderson Brothers Corporation request for a Temporary Use Permit to establish and operate a Temporary Log Storage Yard is denied due to issuance of such requested permit will exceed the maximum number of five (5) Temporary Log Storage Yards allowed within the Town limits.

TEMPORARY LOG STORAGE AND PROCESSING YARD PROJECT NOT EXEMPT FROM CEQA

The Urgency Ordinance 590 declares the ordinance is exempt from the provisions of the California Environmental Quality Act (CEQA). (*Town Municipal Code, Chapter 8.59.130 CEQA exemption. Adoption of this chapter is exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to California Public Resources Code Section 21080(b)(3) regarding projects to maintain, repair, restore, or replace property or facilities damaged or destroyed as a result of a declared disaster and Section 21080(b)(4) regarding actions to mitigate or prevent an emergency, and CEQA Guidelines Section 15269(a) regarding maintaining, repairing, restoring, demolishing, or replacing property or facilities damaged or destroyed as a result of a disaster stricken area in which a state of emergency has been proclaimed by the governor pursuant to the California Emergency Services Act, commencing with Section 8550 of the California Government Code.*

California Public Resources Code Exemptions from CEQA

California Public Resources Code Section 21080(b)(3) states "Projects undertaken, carried out, or approved by a public agency to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster-stricken area in which a state of emergency has been proclaimed by the Governor pursuant to Chapter 7 (commencing with Section 8550) of Division 1 of Title 2 of the Government Code."

California Public Resources Code Section 21080(b)(4) states "Specific actions necessary to prevent or mitigate an emergency."

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

Findings Pursuant PRC 21080 (b) (3) and (4)

The proposed discretionary action of approving and issuance of a Temporary Use Permit under the Urgency Ordinance 590 does not qualify nor meet the requirements of *California Public Resources Code Section 21080(b)(3)*. The Anderson Brothers Corporation Temporary Log Storage and Processing Yard is not proposed to “maintain”, “repair”, “restore”, “demolish”, or “replace” property or facility damaged or destroyed as a result of disaster. The Log Storage and Processing Yard did not exist prior to the Camp Fire. The proposed project is a new land use and activity that did not exist prior to the Camp Fire, thus it cannot be maintained, repaired, restored, or replaced, making this new Log Storage and Processing Yard subject to CEQA.

The Urgency Ordinance 590 also sites subsection (4) *Specific actions necessary to prevent or mitigate an emergency*, as another reason for exemption from CEQA. Again, as previous stated earlier in this Comment Letter this project does not meet the definition of “Emergency”. An “Emergency” is defined by the *California Public Resources Code, Division 13. Environmental Quality, Chapter 2.5 Definitions, Section 201060.3* which states:

“Emergency means a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. “Emergency” includes such occurrences as fire, flood, earthquake, or other soil or geologic movements, as well as such occurrences as riot, accident, or sabotage.”

This definition “limits an emergency to an occurrence” not a condition, and the occurrence must involve a clear and imminent danger, demanding immediate action. An occurrence is something that occurs, happens, or takes place, an event or incident like the Camp Fire. A condition is a mode or state of being. Moving burnt logs and storing them to process them into wood chips is not an “emergency occurrence” but rather is a condition and a process to manage the condition of burnt logs as a result of the Camp Fire emergency occurrence. The activity of running a Temporary Log Storage Yard neither prevents nor mitigates a future wildfire occurrence in Paradise, but rather is a commercial activity designed to profit those who engage in such activity. The primary purpose of the Log Storage Yard is “Profit” to the Anderson Brothers Corporation and shows no linkage/connection to mitigating nor preventing a future wildfire “emergency” occurrence.

15269. Emergency Projects – Statutory Exemption to CEQA

The Urgency Ordinance 590 also utilizes the *California Code of Regulations, Title 14 Natural Resources, Division 6 Resources Agency, Chapter 3 Guidelines for Implementation of the California Environmental Quality Act (CEQA), Article 18 Statutory Exemptions, Section 15269 (a)*

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

The following emergency projects are exempt from the requirements of CEQA.

(a) Projects to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster stricken area in which a state of emergency has been proclaimed by the Governor pursuant to the California Emergency Services Act, commencing with Section 8550 of the Government Code. This includes projects that will remove, destroy, or significantly alter an historical resource when that resource represents an imminent threat to the public of bodily harm or of damage to adjacent property or when the project has received a determination by the State Office of Historic Preservation pursuant to Section 5028(b) of Public Resources Code.

Findings Pursuant to Section 15269 (a).

The proposed project involves the establishment and operation of a new Temporary Log Storage and Processing Yard for the purpose of generating profit by processing burnt logs to wood chips. Wood chips will be sold as a commodity to the biomass solid fuel market, or the raw material market for producing wood pulp, or for organic mulch in gardening, landscaping, restoration ecology, bioreactors for denitrification and as a substrate for mushroom cultivation. The proposed project does not involve any of the factors called out in the Statutory Exemption 15269 (a) as discussed previously. Statutory Exemption 15269, Emergency Projects, was intended for projects that are required to replace/restore/repair/maintain property or facilities that existed prior to the emergency occurrence, not new development and commercial activity proposals such as that being requested by the Anderson Brothers Corporation to establish and operate a Wood Chip Operation.

In no way does the Anderson Brothers Corporation Project have a public interest component required for this Emergency Exemption to CEQA. The project does not protect the health, safety, and welfare of those within the surrounding area of the project or serve any benefit to the surrounding residents or public in the Town of Paradise, it is simple a private commercial endeavor designed to profit the Anderson Brothers Corporation. The project does not repair any property or facility which has public interest or is needed to protect the health and welfare of Paradise residents. Because the proposed project clearly is not an emergency project and is not proposed to fill an immediate need to protect the health and welfare of the local population, the project will result in a “discretionary action,” of the Town of Paradise which requires full CEQA documentation and disclosure. Because the proposed project cannot meet the definition of an “emergency” project as defined by the *California Public Resources Code*, it does not meet the test nor qualify as an emergency project to protect the public health, safety, and welfare, and does not qualify for statutory exemption from CEQA, pursuant to Section 15269, claimed in the Urgency Ordinance 590.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town make the following Findings and Deem the Temporary Use Permit Application Incomplete and Notify the Applicant, Anderson Brothers Corporation the need for an Appropriate CEQA document be prepared (MND, IS/MND, or EIR) based on the following:

- The proposed Temporary Use Permit does not qualify for a CEQA Exemption and is deemed a Project under the CEQA Guidelines requiring an appropriate CEQA document to allow the Town's consideration of the requested Temporary Use Permit to allow the establishment and operations of a Temporary Log Storage and Processing Yard.

INFORMATION REQUIRED TO MEET SUBSTANTIAL EVIDENCE REQUIREMENT OF URGENT ORDINANCE 590

Under the Urgency Ordinance 590/*Town Municipal Code 8.59.070 – Temporary uses associated with removal of fire damaged debris*; it states the following:

“B. The director or his/her designee may authorize such temporary storage use based on substantial evidence that:

- 1. The temporary storage use shall not adversely impact the public health, safety, or convenience or create undue traffic hazards or congestion.*
- 2. The temporary storage use shall not adversely interfere with the permitted use of other land uses and activities on the site or in the general vicinity.*
- 3. The temporary storage use shall be conducted in a manner compatible with the land uses in the general vicinity.*

C. The director may establish such additional conditions as necessary to ensure land use compatibility and to minimize potential negative impacts, including but not limited to hours and frequency of operation, temporary arrangements for parking and circulation, requirements for screening or enclosure, and guarantees for site restoration and cleanup following the temporary storage use.”

The following suggested scope of work is recommended by the Blue Oaks Terrace Neighborhood Advisory Committee to prepare necessary data and analysis that will address the number of potential impacts to public health, safety or convenience or create undue traffic hazards or congestion outlined above in section *B 1 of the Urgency Ordinance 590*, that may be

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

deemed significant, including aesthetics, light, and glare; air quality; biological resources; cultural and historic resources; energy; hazards and hazardous materials; hydrology and water quality; noise; public services and public utilities; recreation; seismicity, soils, and geology; fiscal impact, and transportation and circulation. The following paragraphs are organized by topic area for data adequacy and analysis requests required to meet the data and the analysis to support the Town's required review and findings of no harm documentation for the proposed project. The Blue Oaks Terrace Neighborhood Advisory Committee would request the following analysis to provide the Advisory Committee with the necessary information to ensure the project is compatible with the Blue Oaks Terrace neighborhood and achieves the environmental performance expectations adopted by the Town of Paradise and Butte County, and complies with the above provisions of the Urgency Ordinance 590:

Health Risk Assessment

The Urgency Ordinance 590 requires the Town make the finding that the proposed Temporary Log Storage and Processing Yard will not adversely impact public health. To date the applicant Anderson Brothers Corporation, nor the Town have evaluated health risks associated with the proposed project nor prepared a Health Risk Assessment of the proposed project to allow a determination of health risks caused by the proposed activities of processing burnt and charred wood at the project site.

The residents of the Blue Oaks Terrace Neighborhood will experience immediate exposure to burnt timber, and the ash and char that accompany the fire-damaged wood. Ash and char from forest fires can be complex mixtures that will vary depending on the temperature of the fire and will need evaluation prior to approval of the Temporary Use Permit. Char is composed of a variety of carbon-based compounds, which are formed at lower fire temperatures, some of which may be carcinogenic. As char is only partially combusted wood, char dust will remain combustible. Higher-temperature fires will also result in wood ash (calcium carbonate), which is no longer combustible but is a lung irritant. The Camp Fire was reported as an extremely high-temperature fire so it is assumed residents will be exposed to wood ash.

Char dust and wood ash are both much finer than wood dust and will be easily breathable and transport longer distances impacting nearby residents; long-term, repeated exposures at high concentrations have the potential to cause respiratory illness. Short-term health effects from exposure to wood char and ash can include eye, nose, and throat irritation, coughing, and allergic reactions. In the long term, exposure may lead to more serious health issues, including lung diseases such as chronic obstructive pulmonary disease (COPD) in accordance to Cal OSHA.

As with any kind of respiratory hazard, associated with a proposed project the Town must

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

evaluate the exposure and minimize it with appropriate control measures as conditions to the Temporary Use Permit during the review and approval process. Conditions of Approval for the Temporary Use Permit cannot be devised until such time a Health Risk Assessment Report is prepared and data analyzed to recommend effective conditions and allow the Town to make the findings that such conditions will protect the health of nearby residents and workers at the project site.

Processing of burnt and charred wood and the particulate matter that gets suspended in the air which can travel great distances have been documented as a major source of lung irritant. Wood dust associated with chipping operations has been documented by Cal OSHA to be associated with health issues due to natural chemicals in the wood.

Requested Town Action and Findings

Exposure to wood dust has been associated with health issues due to the natural chemicals in the wood, or substances in the wood such as bacteria, molds, or fungi, which a Health Risk Assessment will document. Wood dust is also associated with toxic effects, irritation of the eyes, nose and throat, dermatitis, and respiratory system effects which include decreased lung capacity and allergic reactions. Exposure to wood dust may irritate the eyes, nose, and throat. Nearby residents and project site workers may also experience shortness of breath, dryness and sore throat, conjunctivitis (inflammation of the mucous membranes of the eye), and rhinitis (runny nose).

Respiratory system effects include decreased lung capacity, and allergic reactions in the lungs such as hypersensitivity pneumonitis (inflammation of the walls of the air sacs and small airways), and occupational asthma. Hypersensitivity pneumonitis may develop within hours or days following exposure and is often confused with cold or flu symptoms because it begins with headache, chills, sweating, nausea, breathlessness, etc. Tightness of the chest and breathlessness can be severe, and the condition can worsen with continued exposure. Some hypersensitivity pneumonitis conditions may be caused by molds that grow on the wood (and by not the wood itself). Many of the pines found in Paradise are known wood varieties that have a clear association with the development of asthma.

Based on the distance to the nearest location of sensitive receptors (existing residences immediately adjacent to the project site) and the project size, potential health risks and hazards to nearby offsite receptors during project construction (from diesel construction equipment) and operations (char dust and wood ash) a Health Risk Assessment should be prepared that will qualitatively address the health risk issues associated with the proposed Temporary Log Storage and Processing Yard.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

The requested Health Risk Assessment should provide technology overview and the timber industry design standards adopted to reduce hazards and risk of upset to an acceptable level. A review of the adequacy of the fire safety and suppression systems should also be documented in the requested Health Risk Assessment. The Town should prepare a public health screening level risk assessment. This screening level assessment characterize the public health effects of the operations and in the event of an upset such as fire. To determine the worst-case public health impacts for this analysis the Town should assume that the log storage and processing yard fire suppression system would activate but not control the fire outbreak. The primary pollutants released due to an upset scenario at the log storage yard would be CO₂ and CO along with lesser amounts of other compounds, including the chemicals released by the fire.

The analysis of toxic air contaminants should be conducted and based on significance criteria prioritization method developed by the California Air Pollution Control Officers Association (CAPCOA) in consultation with the California Air Resources Board (ARB) and Office of Environmental Health Hazard Assessment (OEHHA) as part of the implementation of the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (Air Toxics "Hot Spot" Act, Health and Safety Code §44344.4(c)). The significance criteria used by the prioritization method is based on a Total Score (TS) for chronic and acute impacts. The thresholds are based on the application of several conservative air dispersion modeling scenarios coupled with air pollutant toxicities as reported by OEHHA and the EPA.

The assessment for the proposed project should be based on readily available documentation and plans, as well as telephone interviews with agency representatives. The Town should work with Anderson Brothers Corporation to provide information regarding all hazardous materials that will be used and stored on-site (including burnt log char and ash dust), as well as information on proposed hazardous material storage and handling systems. Toxicity information for each hazardous material should be obtained from publicly available databases in conjunction with the public health analysis. The evaluation of the potential for and human health effects of accidental releases of hazardous materials will take into consideration the guidelines for technical management of chemical process safety, use of dispersion models, and other information available from the American Institute of Chemical Engineers (AIChE) Chemical Center for Process Safety (CCPS). Also, technical guidance for hazard analysis by the US Environmental Protection Agency will be used as applicable.

To perform the assessment identified above, the Town should obtain relevant data from land use maps, the Town General Plan. Data collection efforts should focus on the identification of sensitive receptors (medical clinic, hotel, schools, public buildings, parks, walking trails, residences, and day care facilities) located within a three-mile radius of the proposed project. A drive-by survey should be conducted for the land use analysis to generally confirm the land use data obtained from other sources is accurate and validated. Data from all these sources, plus

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

information gathered for the hazardous materials handling and air quality analysis, should be incorporated in the public health risk assessment of the proposed project.

Physical and chemical characteristics of the air pollutants associated with the proposed log storage and processing yard should be obtained from the scientific literature. Information on a pollutant's carcinogenic potency should be collected from the appropriate regulatory agencies (e.g., CAPCOA, US Environmental Protection Agency, OEHHA) and the scientific literature, including publicly available databases, such as the Integrated Risk Information System (IRIS) or Hazardous Substances Database (HSDB). In addition, acute, sub chronic, and chronic toxicity information should be obtained for each of the air pollutants from both regulatory agencies (CAPCOA, US Environmental Protection Agency, OEHHA) and the scientific literature.

Sources of information to be researched and incorporated into the health risk assessment should include a current Phase I Environmental Site Assessment, and background data related to the Town's General Plan. These resources will be used to determine areas of potential contamination on the project site or surrounding property, if any which could impact residences should the proposed Temporary Use Permit be approved.

The potential for these materials to be released to the environment must be evaluated, documented and findings made concerning the public health and safety of Paradise residents. The significance of potential impacts must be determined, and conditions of permit approval recommended to minimize potential adverse impacts, in compliance with the Urgency Ordinance 590. For purposes of the requested health risk assessment and analysis, it should be assumed that the handling of hazardous substances associated with burnt logs would occur in accordance with applicable federal, state, and local regulations.

Aesthetics – Light and Glare

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town evaluate the proposed project's aesthetics, light, and glare impacts on surrounding areas. Project aesthetic impacts should be evaluated through a reconnaissance-level survey of the project site and surrounding areas that includes the use of photographs to document existing conditions. Future conditions should be documented with architectural elevations, renderings, and plans provided by Anderson Brothers Corporation showing the log stacks, equipment, and processing area if available, visual simulations or other computer-generated images of the proposed project. In addition, the proposed project's aesthetics characteristics should be assessed in relation to General Plan policies, Zoning Ordinance requirements, and the Town's design standards for commercial / industrial operations and the covenants conditions, and restrictions (CCRs) associated with surrounding parcels regarding architectural and building standards to ensure

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

compatibility with the surrounding neighborhood and developments. Since the proposed project area is currently undeveloped and consists of woodlands, pasture lands, and wetlands for the most part, lighting of the night sky may be an issue of concern for current residents. Conditions of approval for the Temporary Use Permit should be recommended, if necessary, to reduce any significant impacts of light and glare.

The Blue Oaks Terrace Neighborhood Advisory Committee would like to request the Town to work with the Advisory Committee identifying key observations points (KOPs) of the project from Blue Oaks Terrace and determine the sensitivity of the viewers from these KOPs to provide supporting record for their conclusion. To assess the projects potential impacts on visual resources the view areas most sensitive to the project's potential visual impacts must be identified. KOP's are usually along commonly traveled routes or at other likely observation points (residential homes, users of the walking trails). Factors that should be considered in selection of key observation points are angle of observation, number of viewers, and length of time the project is in view, relative project size, season of use, light conditions, and distance from the project. KOP's should also be discussed regarding potential mitigation measures and how KOP's geography will affect the ability to mitigate to a less than significant level.

The Blue Oaks Terrace Neighborhood Advisory Committee recommends the Town make an analysis of the visual impacts based on evaluation of the "after" views provided by a computer-generated visual simulation, and their comparison to the existing visual environment. In making a determination of the extent and implications of the visual changes, consideration should be given to:

- The changes in the affected visual environment's composition, character, and any specially valued qualities
- The affected visual environment's context
- The extent to which the affected environment contains places or features that have been designated in plans and policies for protection or special consideration
- The numbers of viewers, their activities, and the extent to which these activities are related to the aesthetic qualities affected by the likely changes

The Blue Oaks Terrace Neighborhood Advisory Committee recommends the Town apply the basic principles of design in the resolution of visual impacts concerning the proposed Temporary Log Storage and Processing Yard Project. The basic philosophy underlying visual quality of a landscape depends on the visual contrast created between a project and the existing landscape. The contrast should be measured by comparing the project features with the major features in the existing landscape. The basic design elements of form, line, color, and texture should be

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

used to make this comparison and to describe the visual contrast created by the project. The assessment process recommended by the Blue Oaks Terrace Neighborhood Advisory Committee provides a means for determining visual impacts and for identifying measures to mitigate these impacts and meets the “substantial evidence” rule of subdivision (e) Section 21080 of the Public Resources Code and the intent of the Urgency Ordinance 590 to ensure any approved Temporary Log Storage Yard is compatible to surrounding land uses and does not impact “convenience” of surrounding properties.

Soil Conservation Analysis

The proposed project site has been stripped of vegetation and graded in preparation for establishing and operating a Temporary Log Storage Yard. In addition, the use of the property as a Temporary Log Storage Yard will compact the soil. The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town prepare a soil conservation analyses and focus on the removal of vegetation, disturbance of the soil, and attendant wind and/or water-caused erosion. Blue Oaks Terrace Neighborhood Advisory Committee understands the compaction of the soils on the proposed project site by the operations of the Temporary Log Storage Yard could substantial increase flooding, erosion, or siltation which must be considered and addressed in making the decision to approve the Temporary Use Permit.

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town analyses also address the agronomic, ecologic, and economic impacts to soil through water and wind erosion. The Town should also document the existing and base physical and chemical characteristics of the project site and vicinity soils readily available including topography, parent material, depth, horizons, structure, texture, color, pH, bulk density, organic matter, drainage and permeability characteristics, land use, and vegetation cover to establish the base for restoration standards upon termination of the Temporary Log Storage Yard. The Advisory Committee requests the Town Identify proposed conditions for the Temporary Use Permit with effectiveness measurements of each condition with discussion of avoidance of sensitive areas, timing of construction activities, minimizing removal of vegetation, soil stabilization, revegetation, runoff retention, drainage diversions, sediment types, soil amendments, orientation to prevailing wind, windbreaks, dust control for the Advisory Committee’s review and comment. The Advisory Committee also requests the Town establish a monitoring and compliance verification measures to ensure that the objectives are met, and all conditions of the Temporary Use Permit are complied with.

Air Quality

Requested Town Action and Findings

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

The Blue Oaks Terrace Neighborhood Advisory Committee request the Town make the activation of the Temporary Use Permit predicated upon the issuance of air quality permits by the Butte County Air Pollution Control District. Blue Oaks Terrace Neighborhood Advisory Committee requests the Town address air quality issues which include the potential impacts from the construction and vehicle emissions generated by the proposed project and the cumulative impacts from other air emission sources nearby. The Town should compare these impacts to the national and state ambient air quality standards with special emphasis on sensitive populations (e.g., school, motel/hotel, nursing homes, residences, medical centers) in the impact area. The Town should also assess if the proposed project complies with applicable air quality emission regulations and the goal of the Town's General Plan regarding reduction in adverse air quality emissions for the project. The Blue Oaks Terrace Neighborhood Advisory Committee recommends the Town's approach to evaluating the proposed projects effect on public health and safety in accordance to the Urgency Ordinance 590 should include the following documentation and analysis:

- Emissions from the various project elements would be subject to the rules and regulations of the Butte County Air Pollution Control District depending upon the type of emissions activities and development components.
- Local and regional climate data (temperatures, precipitation, wind speeds and wind direction, relative humidity, etc.).
- Attainment status for both state and federal air quality standards for pollutants such as PM10, NO2, CO, Ozone, and SO2.
- A summary of the current background air quality based upon existing monitoring data in the project area.
- A summary of applicable air quality regulations, and a regulatory compliance analysis indicating how compliance will be achieved for each identified rule or regulation and permits.
- Climatology and meteorology in the project area.
- The project location using a 1:24,000 topographic map.
- The area's attainment status and the most recent three (3) years of ambient air quality data.
- Emissions of concern as they relate to the proposed project would be primarily classified as follows: (1) vehicle-related emissions associated with mobile sources on site and

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

nearby roadways; (2) construction-related and operational-related fugitive emissions (dust, wood ash dust, wood char dust) during operations of the Temporary Log Storage Yard activities and equipment exhaust emissions; and (3) stationary source emissions.

- The Advisory Committee requests the Town model the air quality impacts of the proposed project to determine the ambient air quality impacts. These impacts should be presented as text, in tabular form, and on a 1: 24,000 topographic maps with concentration contours. The impacts should be compared to ambient air quality significance levels and ambient air quality standards. The Town should ensure Anderson Brothers Corporation submits models and modeling procedures that are approved by the Butte County APCD.
- Identification of the direct and cumulative ambient air quality impacts of the proposed project and any air emission sources within six miles of the project. The cumulative impacts should be added to representative ambient air background concentrations and compared to the ambient air quality standards to determine if the project causes or contributes to violations of these standards. The impacts should be presented as text, in tabular form, and on a 1: 24,000 topographic maps with concentration contours.

Biological Resources

The Town must make findings regarding Biological Resources which state the following: *Town Municipal Code Chapter 8.59.080 - Temporary log storage yards. Subsection C. Standards. All temporary log storage yards shall meet the following standards: 8. Biological Resources. Temporary log storage yards shall not be located on lands containing wetlands, and/or endangered and protected plants and animal species. A biological report shall be furnished to the community development department demonstrating that the site does not contain wetlands and/or endangered or protected plants and animal species. A temporary log storage yard shall not expand without providing a site plan and a biological report to cover the expanded area.*

Anderson Brothers Corporation retained Gallaway Enterprises to prepare a Preliminary Wetland Assessment of the proposed project site and Gallaway Senior Biologist Elena Gregg conducted a preliminary wetland assessment of US Army Corps of Engineers (Corps) jurisdictional waters of the United States (WOTUS) on January 29, 2020 on the proposed project site consisting of five parcels (APN 051-230-047, 051-230-054, 051-230-055, 051-240-011 and 051-240-012) totaling approximately 42-acres located along the southwestern boundary of the Town of Paradise, Butte County, CA.

The Gallaway Report did not utilize Waters of the State Standard in reviewing the proposed project site and only based their evaluation on Corps Wetlands Standards. The Waters of the State (WOTS) regulations were recently approved by the Office of Administrative Law and will

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

become effective on May 28th of 2020. The state of California considers any water or wet spot on the ground within the proposed project site a water of the state, "*The State are starting with 'yes it is' and you have to find one of the exclusions to take it out.*" It's not just that Anderson Brothers Corporation will need a permit because California defined waters of the state very broadly; it's that if the Town is going to approve the project, Anderson Brothers Corporation and Gallaway Enterprises must conduct a study relative to the impact on waters of the state and not just the nation, which now requires Gallaway to conduct an alternatives analysis. The current report submitted to comply with the Urgency Ordinance and document no impact on biological resources is not data adequate. The Town must consider the alternative analysis and establish conditions on the Temporary Use Permit to ensure no locations on wetland and the final site plan also complies with State Regulations of choosing the least damaging alternative, and the Town must require mitigation potentially, in accordance to the new State rules. The Advisory Committee asks the Town to deem the Temporary Use Permit Application incomplete and request that Anderson Brothers Corporation contract with a qualified biologist to address the data adequacy problem of Biological Resources.

Requested Town Action and Findings

The Blue Oaks Neighborhood Advisory Committee requests the Town prepare a new wetlands inventory to meet all State regulations within the proposed project area being considered for the Temporary Log Storage and Processing Yard (42 plus acres), as compliance to the Urgency Ordinance 590 to allow the Town the ability to set conditions for the Temporary Use Permit and establish a preservation strategy of natural resources and wetlands within the proposed project area. The inventory should consist of two key components: a database of existing information compiled for individual wetlands sites located within the proposed project area which conforms to the new requirements of the California Regional Water Board for protection of waters of the state as will become effective May 28, 2020, and an evaluation of the significance of individual wetlands sites or wetlands complexes with a full alternative analysis as required by the State of California. The inventory should provide input to the selection of key conservation sites for the proposed project site plan and should also act as a source of information on which resource managers, planners and project managers can make more informed decisions. After important sites have been identified and protected, it will be necessary to ensure that appropriate management measures are implemented for these sites within the proposed project area or as conditions of the Temporary Use Permit. A range of different options to achieve this end should be developed. The Wetlands Inventory should provide a useful and comprehensive database and resource inventory to the management and planning of resources in the proposed project area.

Wetlands can be associated with a suite of functions and values which they perform in a natural landscape setting. These functions vary in importance depending upon their position in the

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

landscape and the surrounding land use. For land use decisions contemplated with the proposed issuance of a Temporary Use Permit to allow a Temporary Log Storage and Processing Yard, it is critical that individual wetlands be characterized with respect to their values, and targeted for preservation if necessary regardless of whether they are waters of the US or waters of the state.

The Blue Oaks Terrace Neighborhood Advisory Committee request the Town utilize a Geographic Information Systems (GIS) application with a set of preservation protocols to model the relative importance and opportunity for a wetland to perform any one of five different functions in the landscape. Functions should be limited to sediment control, bank stability, water quality improvements, habitat, and flood control. The GIS application should combine land use/land cover data with National Wetlands Inventory information. A set of criteria should define a suite of possible rankings based on wetland type, adjacent land use or proposed land use within the proposed project area (42 plus acres), position in the watershed, and external factors within the region which may influence the ability of a wetland to perform a function (wetlands functions include water quality improvement, habitat quality, flood buffering, bank stability, and sediment control). These criteria should be determined with simple GIS techniques. The GIS model output should create a database suitable for land use planners and managers to assist in their planning activities associated with the proposed establishment and operations of a Temporary Log Storage and Processing Yard. The goal of the GIS Wetlands Preservation Targeting Model is to develop a tool for the assessment of wetlands, and the identification of the most important wetlands for restoration or preservation and document compliance with the Urgency Ordinance 590 requirements regarding avoidance of impacts to wetlands.

The Blue Oaks Terrace Neighborhood Advisory Committee recommends the Town's analysis of the biological resources within the proposed project area considers potential significant impacts to plant and animal species and their habitats. The following data adequacy requests are made of the Town to provide the Advisory Committee adequate data to allow a full evaluation of the biological resources of the proposed project area (As Required by Urgency Ordinance 590) and supplement the Gallaway Preliminary Summary Biological Report which does not address adequately the potential impacts to identified resources as a result of implementing the proposed Temporary Log Storage and Processing Yard:

- Provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the proposed project, the measures proposed to mitigate adverse environmental impacts of the proposed project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the proposed project area, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.
- A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities or log storage and processing yard operations, and in areas adjacent to them, out to a mile from the site. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.
- A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Wildlife's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the Anderson Brothers Corporation or their biological consultant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.
- A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and Temporary Log Storage and Process Yard operations. Discussion of impacts must consider impacts from wood ash and chard dust drift, and from the use and discharge of water during construction and operation. For portion of the site which will use watering to cool log stacks, wood chip piles, dust suppression or other purposes or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.
- Provide complete discussion of all measures proposed to avoid and/or reduce any adverse impacts.
- Provide discussion of all measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation.
- Outline and identify any educational programs proposed to enhance employee awareness in order to protect biological resources during establishment and operations of the proposed Temporary Log Storage and Processing Yard.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- Provide a discussion of compliance and monitoring programs proposed to ensure the effectiveness of Temporary Use Permit conditions incorporated into the proposed Temporary Log Storage and Processing Yard Project.
- Provide a discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the proposed Temporary Log Storage and Processing Yard Project.
- Identify the potential and quality of habitat on and surround the proposed project area for sensitive biological resources: Species listed under state or federal Endangered Species Act; or Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations.
- Make a finding, verify and validate that the proposed project area does not contain species or habitats identified by legislative acts as requiring protection.
- Prepare Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project area, and a discussion of the applicability of each. The table or matrix should explicitly reference pages in the Temporary Use Permit Application or other submittals for the Temporary Log Storage and Processing Yard wherein conformance, with each law or standard during both construction and operation of the proposed Temporary Log Storage and Processing Yard is discussed.
- Tables should also identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the Town to issue a Temporary Use Permit under the Urgency Ordinance 590.
- Provide a discussion of the conformity of the proposed Temporary Log Storage and Processing Yard with the requirements listed in the Tables called out above regarding laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans and permits.
- Provide the name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency regarding compliance with biological resources permits or conditions of approval for the Temporary Use Permit issued under the Town's Urgency Ordinance 590.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- Provide a schedule indicating when permits outside the authority of the Town will be obtained and the steps the Anderson Brothers Corporation has taken or plans to take to obtain such permits to activate the Temporary Use Permit and be in compliance with all permits and the mandates of the Urgency Ordinance 590 regarding biological resources stewardships.

Land Use Compatibility

The Urgency Ordinance 590 requires the Town to evaluate the compatibility of the proposed Temporary Log Storage and Processing Yard to surround existing land uses. The Town Municipal Code states the following requirements: "*Chapter 8.59.070 - Temporary uses associated with removal of fire damaged debris. B. The director or his/her designee may authorize such temporary storage use based on substantial evidence that:*

2. The temporary storage use shall not adversely interfere with the permitted use of other land uses and activities on the site or in the general vicinity.

3. The temporary storage use shall be conducted in a manner compatible with the land uses in the general vicinity.

C. The director may establish such additional conditions as necessary to ensure land use compatibility and to minimize potential negative impacts."

The Blue Oaks Terrace Neighborhood Advisory Committee has not seen or been provide any land use compatibility analysis for the proposed Temporary Log Storage and Processing Yard. The Advisory Committee requests the Town fully understand all aspects of the proposed project affecting the use of land, including required easements or other agreements affecting private property and CCR's on the proposed project site parcels or parcels surrounding the proposed project area. Typically to protect an industrial land use, such as that proposed with the Temporary Log Storage and Processing Yard, from conflicting land uses Operations, Sound, Air Space and Access Easements are required for property surrounding the industrial site hosting the Temporary Log Storage Yard. No discussion has been presented of how the proposed Temporary Log Storage and Processing Yard will impact existing surrounding land uses or if easements will be required to implement the establishment and operations of the industrial use.

The proposed Temporary Use Permit will allow and promote increased industrial activity on a vacant parcel of land planned for rural residential development, which is entirely surrounding by low-density residential land uses, sensitive commercial uses with motel/hotel, and medical center facilities. Thus, residents living in the vicinity may be subject to potential significant impacts associated with increased general industrial operations associated with a Temporary Log Storage and Processing Yard allowed by the proposed approval of a Temporary Use Permit

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

under the Urgency Ordinance which has suspended land use regulations which would normally protect property owners from conflicting and incompatible land uses. Residents will be subjected to noise, vibrations, fumes, dust, wood ash, wood char dust, mold, fungi, bacteria, fuel particles, and safety hazards associated with operations associated with the industrial use and activity of a Temporary Log Storage and Process Yard. No data has been provided to verify, support, or confirm the requirements of the Urgency Ordinance for the proposed project not adversely interfere with the permitted use of other land uses, be compatible with land uses in the vicinity, and minimize potential negative impacts.. Increased industrial operations as a result of implementing the proposed Log Storage and Processing Yard, may be considered a nuisance by the residents. In addition, the Town Temporary Use Permit Application and Information provided on the Anderson Brothers Corporation request does not discuss how the proposed project is consistent with other plans such as the Towns General Plan, Towns Housing Element, Regional Housing Allocation Plan, Short Range Transit Plan, and the Regional Transportation Plan.

In evaluating land use issues, the Blue Oak Terrace Neighborhood Advisory Committee recommends the Town evaluate the consistency/compliance of the project with Federal, state, regional, and local land use plans, and regulations, as well as consider the site plan for the proposed Temporary Log Storage and Processing Yard compatibility with the existing and planned land uses in the vicinity. In addition, the Site Plan for the proposed project should be reviewed for conformance with all the spatial requirements set out in the Urgency Ordinance 590 and a Memo providing certification of compliance.

The Town should fully understand all aspects of the proposed project affecting the use of land, including required easements, existing prescriptive easements or other agreements affecting private property. The existing residents residing adjacent to the proposed project area have established a right to a prescriptive easement along the creeks, water features, and woodlands of the project site. The rationale behind prescriptive easements is that long-time users of property can acquire a legal interest at the expense of property owners who have slept on their rights. Elements of a Prescriptive Easement in California, a user of land may establish a prescriptive easement by proving that his or her use of another's land was: (1) continuous and uninterrupted for five years; (2) open and notorious; and (3) hostile. By review of historical satellite images numerous walking paths can be identified that have been used historically. The proposed Site Plan must honor the prescriptive easements on the 42-acre proposed project area.

The first requirement is relatively straightforward. "Continuous" use means that the use occurred over a five-year period on occasions necessary for the convenience of the user. The residents surrounding the proposed project site have been using the walking paths on the project site property for both vehicle and pedestrian access to the wetlands, creeks, and woodlands, for the past 50 plus years. The residents use of this access has been continuous and year around. The

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

proposed project site, property owners, (Anderson) have failed to post the necessary signage under Civil Code Section 1008, stating "Right to Pass by Permission, and subject to Control, of Owner" prior to the residents use of this land ripening into a prescriptive easement (5 year period).

The second requirement "open and notorious" This means only that the use of the land is sufficiently visible that anyone who bothered to view it would be able to discover it. Generally, the use will be considered "open and notorious" as long as it is not hidden or concealed from the property owner. The easements along the creeks, wetlands, and woodlands of the proposed project site is noticeable to all the general public as it is worn into a pathway which is large and distinctive from the grass and vegetation growing elsewhere on the proposed project site. The pathway is visible from several adjacent roadways and from historical aerial photos of the 42-acre project area.

The final requirement is the use of the land qualifies as "hostile". Meaning the residents surrounding the proposed project site have used the land on the project site without the expressed permission of the project site property owner. Hostility is reflected in the fact that the property owners (Anderson) have proposed a site plan for the Temporary Log Storage and Processing Yard Project, that would re-take the land by adverse possession (by easement by prescription). In addition, in interviewing existing residents who use the easement it was stated that no permission was ever granted, it simply has always been that way.

The proposed Anderson Brothers Corporation Temporary Log Storage and Processing Yard Project has provided a site plan that does not allow pedestrian nor vehicle access on the existing pathways within the project site. The proposed improvements within the prescriptive easement area within the planning project area under the site plan as submitted, would be in jeopardy, until five years has passed, and the residents surrounding the project site (Easement Owners) failed to enforce their easement right in court.

If the Town and Anderson Brothers Corporation proposes to use these prescriptive easements as shown in the Site Plan, it must be taken back in the same manner as it was taken, which is an open, notorious, continuous, manner for five (5) years or more. Such self-help is tantamount to re-taking the land by adverse possession (by easement by prescription), and you have to take the land back in the same manner as it was taken from you, which is in an open, notorious, continuous manner for five years or more. "It is settled law that an easement, whether acquired through a grant, adverse use, or as an abutter's right, may be extinguished by the owner of the servient tenement by acts adverse to the exercise of the easement for the period required to give title to the land by adverse possession." Popovich v. O'Neal, 219 Cal. App. 2d 553, 556 (Cal. App. 5th Dist. 1963). See also, Glatts v. Henson, 31 Cal.2d 368, 370 [188 P.2d 745]; Rest., Property, § 506, p. 3090; 17 Cal.Jur.2d § 40, p. 149.). "Generally, a prescriptive easement once

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

acquired can be extinguished by actions of the servient tenement which satisfy the same elements required for the creation of the easement." Zimmer v. Dykstra, 39 Cal. App. 3d 422, 435 (Cal. App. 2d Dist. 1974).

If the proposed site plan and planning action is not modified to rectify the above identified issue it would constitute a significant impact to land use regarding the division of a community and be a violation of the Urgency Ordinance 590. This significant impact if not mitigated would require provide findings for the Town to deny the requested Temporary Use Permit due to the documented adverse interference the proposed project would create, which is forbidden by the Urgency Ordinance 590 because approval of the Temporary Use Permit would allow the proposed site plan to divide a community and allow adverse possession of the easements. Furthermore, the future disruption of the proposed Temporary Log Storage and Processing Yard having to demolish the pathways within the prescriptive easement, assuming the Easement Owners prevailed in court, would impact the character, design, and efficient use of the proposed project site. Town approval of the current site plan also will pit the existing residents against the property owner and applicant for the requested planning approval, making the Town potentially a party in the Easement Owners lawsuit to enforce their easement rights. The Town may be held liable for legal costs and damages of the Easement Owners in enforcing their easement rights because of the Town's decision in the matter to approve the site plan, Temporary Use Permit, under the Urgency Ordinance 590 adopted by authority of a terminated Emergency Proclamation, extending the end of the emergency beyond the requirements of the California Government Code 8630 as proposed.

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee would recommend the Town prepare a Land Use Compatibility Analysis which addresses the prescriptive easements issues by ensuring the site plan has been incorporated to diminish any potentially significant impacts related to dividing a community or interfere unreasonably with the easement along the creeks, wetlands, and woodlands of the proposed project site.

Noise

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town address potential noise impacts and include potential impacts from construction and cumulative impacts from other projects and activities associated with the rebuilding and restoration of the community after the Camp Fire. The Town should compare estimated project noise in areas to be occupied by workers and at sensitive noise receptors to local, state, and Federal standards. The noise analysis should utilize information and maps developed for the land use compatibility analysis, including information on future developments in the study area, information from discussions with Town and Butte County staff, and the results of an early reconnaissance of the study area.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

The Town should use models that have been successfully employed on similar projects to estimate noise levels and predict changes in noise levels in the study area anticipated to be impacted by the Temporary Log Storage and Processing Yard operations.

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee recommends the Town's approach to evaluation of noise impacts associated with the proposed Temporary Log Storage and Processing Yard operations should include the following:

- Identification of land uses in the planning study area, including sensitive receptors (residences, schools, parks, motels, medical centers, etc.). Conduct noise monitoring information.
- Identification of future land uses in the study area, and potential future projects in the study area.
- Identification of expected noise-producing construction equipment and noise-producing equipment during operations of the proposed Log Storage and Processing Yard.
- Identification of expected noise levels from each piece of construction and operating equipment; near-field data is required for employee exposure assessments and far-field data is required for community noise exposure assessments.
- Identification of noise levels that employees will be exposed to.
- Identification of expected composite noise levels (ambient plus project activity) at the site boundary and at the nearest noise-sensitive receptors resulting from construction, and operations as well as discussion of changes in noise levels caused by the proposed project.
- Discussion of potential cumulative impacts on existing and future land uses from the proposed Log Storage and Processing Yard, related infrastructure (such as acceleration and deceleration lanes on the Skyway) and other planned and foreseeable future projects in the vicinity that could produce noise; the logarithmic nature of decibel addition must be taken into consideration in assessing cumulative noise impacts.

Transportation Impacts

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

The Urgency Ordinance 590 requires the Town to determine the proposed Temporary Log Storage Yard will not create undue traffic hazards or congestion. Town Municipal Code states the following: “8.59.070 - *Temporary uses associated with removal of fire damaged debris.*”

B. The director or his/her designee may authorize such temporary storage use based on substantial evidence that:

1. The temporary storage use shall not adversely impact the public health, safety, or convenience or create undue traffic hazards or congestion.”

To date the Blue Oaks Terrace Neighborhood Advisory Committee has seen no documentation or analysis of traffic impacts caused by truck traffic generated by the proposed Temporary Log Storage and Processing Yard being located off the Skyway. The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town prepare a traffic study. The Blue Oaks Terrace Neighborhood Advisory Committee would like to work closely with the Traffic Consultant and the Town in developing appropriate assumptions for the project. In addition to the roadway network impacts, the traffic analysis is assumed that the Traffic Consultant will include an assessment of internal circulation issues and constraints for the proposed project area. The Blue Oaks Terrace Neighborhood Advisory Committee would like to review the traffic study for environmental adequacy and compliance to the requirements of the Urgency Ordinance 590.

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town address traffic and transportation issues that include potential impacts from ingress/egress of truck traffic on the Skyway, together with cumulative impacts from other development projects. The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town to prepare a traffic model for the proposed project area and consider alternative access easements to the proposed project area to avoid ingress/egress off the Skyway. The Town should evaluate and analyze the workforce generated by Temporary Log Storage and Processing Yard activities and future business generation and employment. Considerations should include the number of round trips associated with the construction workforce and what impacts the additional workforce will have on the area, as well as traffic impacts resulting from new workers and contractors bring logs to the proposed project area. Public transportation and congestion management agencies should be consulted about the proposed project, if any, on transportation systems. The evaluation should also include analysis of applicable laws, ordinances, regulations, and standards that will be relevant to the proposed project traffic and parking.

Project trip generation volumes should be estimated for weekday and peak-hour conditions.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

- Trip Distribution and Assignment—Based on an analysis of the trip making characteristics of the proposed project, existing and future traffic flow patterns, origin/destination data obtained from the project applicant, area demographics of the trip distribution of project-generated traffic should be estimated. Traffic should be assigned to the existing street system based on logical travel patterns associated with this directional distribution (One Way Streets Associated with Skyway).
- Existing Plus Approved/Pending Projects Plus Project Conditions Analysis—The proposed project generated peak hour and daily trip volumes should be added to the derived Existing Plus Approved/Pending proposed project volumes, to obtain the Existing Plus Approved/Pending proposed project plus project traffic conditions. The potential level of service (LOS) impacts of the proposed project should be quantified, by comparison of existing plus approved/pending proposed project conditions to existing plus approved/pending proposed project plus proposed project conditions at all study area critical intersections and roadways.
- Project Access and On-Site Circulation—Proposed and potential project area/access roadways should be evaluated to determine appropriate configuration, location, and traffic control. Spacing with other intersections and roadways, and vehicle stacking requirements should be evaluated. In addition, project area pedestrian/bicycle safety concerns should be evaluated.
- Description of any new transportation systems/facilities including access roads and any significant improvements to existing transportation needed for construction and operation of the proposed project should be evaluated such as acceleration and deceleration lanes.

Solid Waste Facility Permit

The Urgency Ordinance 590 requires a Temporary Log Storage Yard operator to obtain a Solid Waste Facility Permit if its operations qualify. See the Town Municipal Code which states: “8.59.080 - Temporary log storage yards.

C. *Standards. All temporary log storage yards shall meet the following standards:*

10. *Butte County Public Health, Environmental Health Division Standards.*

a. *Depending on the activities performed on-site, the temporary log storage yard may be determined to be a solid waste facility. The facility operator must provide access to the facility and provide for review of the activities occurring at the facility to the local enforcement agency, Butte County Environmental Health, to determine if there exists a requirement to register for a*

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

permit status as a solid waste facility in accordance with Title 14 of the California Code of Regulations.”

According to the Temporary Log Storage Yard Application submitted to the Town by Anderson Brothers Corporation the proposed project will operate seven days per week and will receive 285 logging trucks per day. The laws governing truck weight are in Cal. Vehicle Code §§35550 et seq. and permitting provisions are in Cal. Vehicle Code §§35780 et seq. Trucks and vehicle combinations transporting loads composed solely of logs are allowed to exceed the tandem axle limit by up to 1,500 lbs. for a maximum tandem axle gross weight of 35,500 lbs. Two consecutive sets of tandem axles are allowed a combined gross weight of up to 69,000 lbs. provided no axle exceeds 35,500 lbs. and the overall distance between the first and last axle of such consecutive sets of tandem axles is 34 feet or more (Cal. Vehicle Code §35552). Based on the maximum allowed combined gross weight of 69,000 lbs. per truck load and the proposed project will accept 285 trucks per day, will allow the proposed Temporary Log Storage and Processing Yard move 9,832 tons per day. This volume of wood debris chipping and grinding facilities qualifies the proposed Anderson Brothers Corporation Temporary Log Storage and Processing Yard as a “Full Permit” type Solid Waste Permit Facility and is subject to CalRecycle’s regulatory authority.

Butte County Environmental Health Department acts as the Local Enforcement Agency (sometimes referred to as LEAs) for CalRecycle/State of California and has the primary responsibility for ensuring the correct operation and closure of solid waste facilities and issuance of “Full Permit” for Solid Waste Facilities. This includes solid waste facility permitting, inspection and enforcement authority. CalRecycle reviews and concurs with the permit proposed by the Butte County local enforcement agency. This is done to ensure that the permit and the facility meet state minimum standards and all other applicable California laws and regulations.

California uses a “tiered” system of permits for solid waste facilities, including recycling and processing facilities. The system consists of five permit tiers for different facilities, depending upon the type, size and material accepted. The requirements range from “excluded” (that is, the facility is outside of the scope of the tiers) to a “full solid waste facility permit.” The proposed Anderson Brothers Corporation Temporary Log Storage and Processing Yard qualifies as a “full solid waste facility permit.”

Requested Town Action and Findings

The Blue Oaks Terrace Neighborhood Advisory Committee requests the Town conditions the approval of the Temporary Use Permit and authorization to proceed with the establishment of the proposed Log Storage and Processing Yard upon receiving the Solid Waste Facility – “Full

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

Permit" from the Butte County Environmental Health Department who acts as the LEA on behalf of the State of California and CalRecycle.

QUESTIONS UNANSWERED BY TOWN STAFF REPORT/INADEQUATE FINDINGS

The Town's Planning Commission should seek answers to the following as "findings of fact" required to support the decision to approve or deny a temporary use permit for the proposed Temporary Log Storage and Processing Yard:

1. Consider program characteristics such as staffing and supervision, hours of operation, debris type, facility capacity, length of daily operations, and any other factors which may have a bearing on the compatibility of the facility with the surrounding neighborhood.
2. Consider the design of the proposed facilities, log stacks, chip piles, etc.... is of a human scale, is in harmony with the surrounding area and not enormous in character.
3. Consider time horizons for the Temporary Use Permit for performance reviews, with the understanding that permits to continue use may be granted as long as operations prove compatible with neighborhood life. Develop specific standard criteria for periodic reviews.
4. As a condition of approval, Anderson Brothers Corporation should be required to name a liaison person to whom neighborhood residents can refer for exchange of information and expression of concern regarding the facility, both while an application for a development permit is being processed, and while the facility is in operation.
5. Anderson Brothers Corporation should prepare a fact sheet describing the proposal in terms of exact equipment used on site, hours of operation, number of personnel, number of deliveries and vehicle trips per hour and per day, size (height, width, length) of log stacks, and chip piles, monitoring for PM of wood ash and char dust, documentation of burnt logs and wood debris removal locations, level of supervision; referral process; and funding. Each of these characteristics should be made a condition of approval to limit future operational changes that could generate impacts not considered in this current proposal.
6. Anderson Brothers Corporation should provide contact person who can answer technical questions related to hazards associated with wood ash, char dust, and other chipping and processing practices in their facility.

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

7. Does Anderson Brothers Corporation have a program in place to eliminate the off-site contamination by fungus, bacteria, and molds on logs and drift of wood ash dust and char dust?
8. Does Anderson Brothers Corporation provide staff members annual training on the health and environmental effects of processing burnt logs?
9. Does Anderson Brothers Corporation provide annual education on waste management for employees? Please describe any education or training provided on handling and minimizing waste: (type of training, who receives, who provides, how often, documentation).

The Blue Oaks Terrace Neighborhood Advisory Committee would like to discuss the issues outlined above to determine appropriate scope and approaches to evaluating the consequences of the proposed Temporary Use Permit per the requirements of the Urgency Ordinance 590. We hope the Blue Oaks Terrace Neighborhood Advisory Committee can provide practical solutions and gain the data adequate to comply with the Urgency Ordinance 509 review and approval requirements for Temporary Use Permits.

Thank you for your attention in this matter. If you have any questions, please let me know.

Sincerely,

Paul P. Farsai

Paul Farsai, Blue Oaks Terrace Neighborhood Advisory Committee

Paradise, CA

530-342-7337

Paul@LandDevelopers.Land

March 14, 2020
Town of Paradise, Development Services Department
Page 38 of 38

Reference: Blue Oaks Terrace Neighborhood Advisory Committee Response to Anderson Brothers Corporation request for Temporary Use Permit to Establish and Operate a Log Storage and Processing Yard

March 1, 2020

Susan Hartman, Community Development Director
Town of Paradise
5555 Skyway
Paradise, CA 95969

Town of Paradise
Community Development Dept

MAR 04 2020

RECEIVED

Re: PL19-00383: Log Storage and Processing Yard

Dear Ms. Hartman;

We strongly object to the proposed use of this property on Skyway as a log storage and processing yard for the following reasons:

1. Our property is located at the end of Jade Lane, directly across from this piece of property on Skyway. Due to the fire we have an unobstructed view of this property and there is nothing to mitigate the sound of the heavy equipment needed for this proposed use. We had to endure the sunrise to sunset (and many times later) noise and dust for months when this property was cleared last year and we do not want to relive that experience.
2. Skyway is the main route between the Paradise/Magalia area and Chico. The proposed use of this property on Skyway would create a dangerous traffic hazard. Due to the number and size of the vehicles and equipment needed to transport logs and process them would require a lane closure that would create a noise and safety situation that is unacceptable.
3. Last year the owner of this Skyway property proposed that it be used as a debris processing and crushing plant. The Town Council denied that request as an inappropriate use of the property. A log storage and processing yard is no less an inappropriate use of this property!
4. A log storage and processing yard does not belong in a residential area of the Town. There are many, many areas in the Town limits and in the county that would be more appropriate for this operation where there are fewer or no homes. The people of Paradise have endured enough as a result of the Camp Fire and should not be subjected to more noise, dust, traffic danger and inconvenience.

The owner of this Skyway property seems determined to have his way in how this property is used and has absolutely no regard for the people who live in the area. He cleared the property and operated heavy equipment with no regard for the noise and dust generated. He wanted to put a debris processing and crushing site on the property with no regard for public safety, traffic hazards and quality of life for those of us still living in the area.

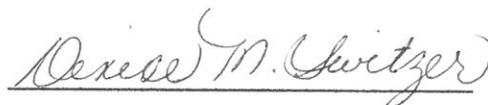
The goal for all of us in Paradise is to see the Town rebuild and prosper again. There are many residents that are rebuilding along Neal Road. There are many lots for sale along Neal Road. Does the Town of Paradise really expect residents to want to rebuild their homes where they can see and hear and suffer the inconveniences of a log processing lot on Skyway? Does the Town of Paradise really expect people to want to purchase property along Neal Road where they can see and hear and suffer the inconveniences of a log processing lot on Skyway if they build there?

This property on Skyway was not compatible for a debris processing and crushing plant and it is not compatible for a log storage and processing lot! We understand that the removal and processing of dead and dying timber in Paradise is a necessity and a storage and processing lot for that purpose is required. This property on Skyway is not the proper location for such an operation.

Please deny this use permit and show that the Town of Paradise cares for and has consideration for its property owners and residents in the immediate area and all of the people who use the Skyway.



Charles D. Switzer
145 Jade Lane
Paradise, CA 95969
872-2310



Denise M. Switzer
145 Jade Lane
Paradise, CA 95969
872-2310

Hartman, Susan

From: Robert Matthews <robertmatthews1@gmail.com>
Sent: Wednesday, March 4, 2020 10:48 AM
To: Hartman, Susan
Subject: Logging Mill Neal and Skyway

I understand there is a meeting on March 17 regarding a permit issued for a saw and logging operation. As I now live 500 miles from Paradise I will not be able to attend. Thus I am sending you this email in my stead.

I am currently rebuilding my house at 5410 Hickory Way. The home is around 70% completed and should be done by June. I have just been informed that some sort of a storage, logging operation is planned in my neighborhood. I have spent a great deal of time and money to get my new house where it is. I would not have done this if I knew that a logging and truck operation was being permitted so close to where my house is. Large diesel logging trucks and saws that cut up logs make an enormous amount of noise. Not only is there noise pollution but there would be an extreme amount of air pollution from the trucks and from cutting up burned and toxic logs.

At the bottom of this email is a link that shows you a small example of what kind of noise just a relatively small saw makes at a sawmill. You might want to look at it and do some searches for other examples.

This area of Paradise has quite a few new houses being built and more on the way. How many prospective home builders will change their minds once they realize that this kind of operation will be permitted in their neighborhoods? If I had known you were permitting this, I would not have started the rebuilding process. I would have taken the money and moved elsewhere. I strongly encourage the commissioners to consider this neighborhood and this location and that they do not allow this to proceed.

Sincerely

Robert Matthews
5410 Hickory Way
805-657-5510

<https://www.youtube.com/watch?v=hW6QhC-3LSM>
Saw mill operation link

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Robert Matthews
226 W Ojai Ave.
Suite 101 #513
Ojai CA 93023
805-657-5510

TEMPORARY LOG STORAGE YARD

APN's 051-230-047, 054, 055, 051-240-011 & 012

PROJECT DESCRIPTION:

The project is related to restoration activities for the Town of Paradise due to the Camp Fire. Proposed temporary uses include contractor's offices, including temporary buildings, construction storage yards, construction equipment and vehicle parking and services, wood storage and processing facility. Temporary access points to the site will be constructed. Use will include delivery of wood materials, onsite processing and shipment of wood materials from the site.

PROJECT OPERATION DESCRIPTION:

Operations at the site are proposed to not exceed seven days per week, from 7:00 am to 7:00 pm. Truck traffic volumes are not expected to exceed 25 per hour or 285 per day or 2,000 per week. Vehicles expected at the site include pickups, pickups with trailers and commercial trucks. 80% of vehicles are expected to be heavy vehicles. Wood products will be delivered and removed from the site utilizing pickup, pickups with trailers and commercial trucks. Ingress and egress at the site would be via the Skyway as shown on the Plot Plan. Internal circulation routes for trucks would be as shown on the Plot Plan. Portable site lighting would be provided at active ingress and egress locations at the site. Six foot tall portable chain link fencing would be provided along the Skyway adjacent to the site and at ingress and egress points.

No hazardous materials would be stored at the site, including tank storage of fuel. The public would not have access to the any of the job trailers.

Wood reduction processes would be limited to chipping and grinding operations in the locations shown on the Plot Plan. No chemically induced decomposition would occur.

ENVIRONMENTAL CONDITIONS:

The entire site was burned during the Camp Fire. As part of the already completed site cleanup, all trees and remaining vegetation have been removed from the site. The site has been cleared and grubbed and wood chips installed. An ephemeral stream exists on the easterly portion of APN 051-240-012. A drainage swale exists on the southern portion of APN 051-240-012. A 100-foot undisturbed buffer has been maintained along these features and would be maintained during the log storage and processing process. There are no other known environmental features at the site.

EROSION CONTROL:

All parcels proposed with the Use Permit are approximately 41 acres which will require a SWPPP and a NOI to be filed with the State Water Quality Control Board. A SWPPP was prepared for all of these parcels as part of the fire debris cleanup process that occurred in 2019. The parcels have been stabilized and a NOT has been approved for this SWPPP, however if the proposed Use Permit is approved the prior SWPPP would be utilized again. We are

providing a copy of the prior SWPPP for review. A NOI can be submitted to the state within a week of receiving notice for the currently proposed Use Permit.

AIR QUALITY AND DUST CONTROL PLAN:

Fugitive dust emissions will be controlled by regular watering, installing gravel or wood chips over soil surfaces or by other dust preventative measures. Watering, with complete coverage, will occur at least twice daily, preferably in the late morning and near the end of the work day. A water truck will be at the site at all times.

TEMPORARY LOG STORAGE YARD

APN's 051-230-047, 054, 055, 051-240-011 & 012

SITE RECLAMATION PLAN

Prior to the proposed log storage yard, the site consisted of undeveloped parcels with burned vegetation and trees due to the Camp Fire. The site is proposed for use as a temporary log storage yard during the tree removal process in the continuing effort of cleanup from the fire.

Reclamation of the site would involve removal of all vehicles, equipment, trailers and associated tools and items used at the storage yard. As portions of the site are removed from activity, and at the conclusion of all activities at the site, BMP's would be installed on all disturbed areas as erosion and sediment control and to stabilize the site. It is anticipated that fiber rolls, silt fence and wood chips with native vegetation seeding would be utilized as BMP's at the site. The site shall be stabilized to the satisfaction of the Community Development Director.

SKYWAY SITE

MATERIAL HANDLING AND FIRE PREVENTION PLAN

GENERAL

This Material Handling and Fire Prevention Plan (Plan) is for the log storage and wood processing site located in the Town of Paradise, California along the Skyway at assessor parcel numbers: 051-230-047, 054, 055, 051-240-011 and 012. The site consists of multiple parcels. Three of the parcels are adjacent to each other, are located between the westbound and eastbound lanes of the Skyway and together consist of about 1.7 gross acres. The remaining parcels are adjacent to each other, are located on the south side of the eastbound portion of the Skyway and together consist of about 30.1 gross acres. Use of this site is temporary and will be a part of the ongoing cleanup efforts in the Town from the Camp Fire. Materials expected to be at the site include: cut trees, wood debris, wood chips and associated wood products.

Proposed site facilities consist of: log pile areas, incidental lot related material pile areas, wood chip area, staging and laydown areas, access roads, temporary job trailers, portable restroom facilities. Water is provided to both areas by Paradise Irrigation District (PID). The 1.7 acre area is served by two 3/4-inch water services. The 30.1 acre area is served by a 6-inch water pipe. The PID water services will be utilized for the site operations, dust control and fire suppression. A 12,000 gallon overhead water storage tank will be provided on the 30.1 acre site to provide additional water capacity and supply to the sites.

A sealed box of tools will be at the site and stored in the job trailer location. The toolbox shall contain a minimum of: one backpack pump-type fire extinguisher filled with water, two axes, two McLeod fire tools and a sufficient number of shovels so that each employee at the operation can be equipped to fight a fire. Additionally, one or more serviceable chainsaw of 3-1/2 horsepower or greater with a cutting bar 20-inches in length or longer shall be immediately available within the operating area.

When a fire starts, a telephone call must be made to 911 immediately to inform that there is a fire.

All cutting activities shall comply with Chapter 35 from the California Fire Code. Regular inspection of the facility by trained fire personnel shall be allowed and facilitated by the facility operator. Smoking may only occur in designated locations shown on the site plan.

MATERIAL MONITORING

Log Piles

Log piles shall be checked for temperature once a week at intervals of 100 feet along the crown of the pile. If a temperature is found to exceed 140 degrees in a pile, temperature monitoring shall increase to twice a week at a spacing of 50 feet until the material is removed or the temperature is found to be below 140 degrees for one week. If temperatures increase to above 160 degrees the pile shall immediately be opened up to allow the heat to dissipate. Water shall be applied as needed to aid in reducing temperatures. The monitoring locations, recorded temperatures and date and time of each test shall be written on a summary sheet and kept at the site at all times.

Incidental Log Related Materials

The piles of incidental materials shall be checked for temperature once a week at intervals not exceeding 100 feet along the crown of the pile. If a temperature is found to exceed 140 degrees in a pile, temperature monitoring shall increase to twice a week at a maximum spacing of 50 feet until the material is removed or the temperature is found to be below 140 degrees for one week. If temperatures increase

to above 160 degrees the pile shall be opened up immediately to allow heat to dissipate. Water shall be applied as needed to aid in reducing temperatures. The monitoring locations, recorded temperatures and date and time of each test shall be written on a summary sheet and kept at the site at all times.

Wood Chips

Wood chip piles shall be checked for temperature one a week at intervals of 100 feet along the crown of the pile. If a temperature is found to exceed 140 degrees in a pile, temperature monitoring will increase to twice a week at a spacing of 50 feet until the material is removed or the temperature is found to be below 140 degrees for one week. If temperatures increase to above 160 degrees the pile shall be opened up immediately to allow the heat to dissipate. Water shall be applied as needed to aid in reducing temperatures. The monitoring locations, recorded temperatures and date and time of each test shall be written on a summary sheet and kept at the site at all times.

EQUIPMENT

The following equipment will be at the site at all times and available for firefighting:

At least one loader equivalent to a Caterpillar (CAT) 930 or larger. At least one excavator equivalent to a CAT 314 or larger. At least one water truck with a 3,800 gallon tank or larger. The water truck shall be equipped with a nozzle to allow spraying of materials or fires and a connection point for a hose along with at least 100 feet of hose. All vehicles and equipment operating on piles or processing material shall include a portable fire extinguisher with a minimum rating of 4-A:60-B:C.

A 12,000 gallon overhead water storage tank will be provided on the 30.1 acre site to provide additional water capacity and supply to the sites and equipment. Water will be supplied to the tank from an existing 6-inch pipe supplying PID water.

Temperatures within piles shall be monitored with a manual probe that shall be calibrated at least every three months.

FIRE PREVENTION

Materials shall be limited to the pile areas shown on the site plan. The dimensions of each area shall be limited as specified on the site plan and the Town's Use Permit requirements. Access roads will be provided around all piles and all piles shall include the separation as required by the site plan and Use Permit. These requirements are to provide adequate access in the event of a fire.

The temperature of piles shall be monitored. Once thresholds are reached, adjustments will be made to the monitoring and action will occur to reduce the temperature of piles.

The onsite water storage tank will provide watering and firefighting capabilities to the site. A toolbox containing firefighting items will be located at the project trailers.

At least 1 loader, 1 excavator and a water truck shall be in working order and at the site at all times. At least 100 feet of hose will be available to connect to the onsite water storage tank or water truck.

FIRE IDENTIFICATION AND NOTIFICATION

In the event of a fire during normal business hours, onsite personnel must call 911 immediately to inform that there is a fire.

The onsite manager shall be notified immediately and onsite personnel will use available firefighting equipment and tools to begin battling the fire. They will continue to fight the fire in a safe manner until the

fire agency arrives, at which point they will provide assistance to the fire agency as directed by the agency.

Within 2 hours of a fire event the following agencies shall be notified:

Butte County Air Quality Management District (BCAQMD) - 530-332-9400
Butte County Environmental Health Department (BCEH) - 530-552-3880

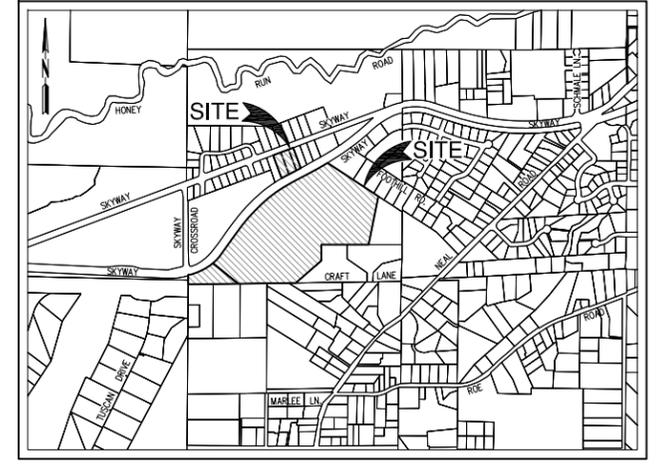
EMERGENCY RESPONSE PROCEDURES

The following procedures should be taken depending on the fire situation:

If smoke or flames can be seen coming from materials or any feature on or near the site the onsite personnel must call 911 immediately to inform them of the smoke or fire.

The onsite manager shall be notified immediately. A roll-call of onsite personnel shall occur to account for all people at the site. Any person in direct or indirect danger shall be assisted and relocated to a safe location. Onsite personnel shall utilize available firefighting equipment and tools to begin battling the fire. They shall continue to fight the fire in a safe manner until the fire is extinguished or the fire agency arrives. They shall provide assistance as directed by the fire agency.

Firefighting shall always occur from a safe position and consist of the following methods, or combination of methods, as appropriate for the situation: cooling the combustible material or fuel source, smothering the combustible material or fuel source and dilution of the combustible material.



LOCATION MAP
NO SCALE

OWNER

ANDERSON BROTHERS CORPORATION
1545 ELLIOTT ROAD
PARADISE, CA 95969

PARCEL INFORMATION

APN	ZONING	GENERAL PLAN	AREA
051-230-047	CC - COMMUNITY COMMERCIAL	TC - TOWN COMMERCIAL	±0.4 AC
051-230-054	CC - COMMUNITY COMMERCIAL	TC - TOWN COMMERCIAL	±0.7 AC
051-230-055	CC - COMMUNITY COMMERCIAL	TC - TOWN COMMERCIAL	±0.6 AC
051-240-011	AR 1 - AGRICULTURAL RESIDENTIAL (1 AC MIN)	AR - AGRICULTURAL RESIDENTIAL	±1.6 AC
051-240-012	RR 2/3 - RURAL RESIDENTIAL (2/3 AC MIN)	RR - RURAL RESIDENTIAL	±3.8 AC

NOTES

- NO STRUCTURES EXIST ON THE SITES.
- THERE ARE NO KNOWN SEPTIC SYSTEMS, WELLS OR OTHER IMPROVEMENTS LOCATED AT THE SITES.
- EXISTING LAND USE IS UNDEVELOPED.
- ONSITE PARKING AREAS ARE PROPOSED TO BE WITHIN GRAVEL SURFACED AREAS.
- TEMPORARY STOP SIGNS ARE PROPOSED AT ALL ACCESS POINTS TO THE SKYWAY. NO ADDITIONAL ONSITE SIGNS ARE PROPOSED.
- THE LOCATION OF EXISTING TREES ARE BASED ON FIELD MEASUREMENTS AND ARE APPROXIMATE.
- NO TOPOGRAPHIC SURVEYING HAS BEEN PERFORMED. EXISTING INFORMATION IS BASED ON TOWN OF PARADISE AERIAL TOPOGRAPHIC INFORMATION.
- STORMWATER BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED BASED ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- TEMPORARY LOG STORAGE YARDS SHALL COMPLY WITH THE STANDARDS CONTAINED WITHIN TOWN ADOPTED URGENCY ORDINANCE NO. 590 INCLUDING BUT NOT LIMITED TO: (1) 100' SETBACK FROM PROPERTY LINES AND 150' SETBACK BETWEEN WOOD PILES; (2) FIRE ENGINES MUST BE ABLE TO MANEUVER THE SITE; (3) CALIFORNIA FIRE CODES AND PUBLIC RESOURCES CODES MUST BE FOLLOWED.
- LOG PILES SHALL NOT EXCEED 20' IN HEIGHT, 300' IN WIDTH AND 500' IN LENGTH. LOG PILES SHALL BE STABILIZED BY A MEANS APPROVED BY THE FIRE CHIEF OR THEIR DESIGNEE. OTHER PILES MADE OF INCIDENTAL LOG RELATED MATERIALS SHALL NOT EXCEED 20' IN HEIGHT, 150' IN WIDTH AND 250' IN LENGTH. ALL PILES SHALL BE SEPARATED FROM ALL OTHER PILES BY 100'.
- ALL ONSITE ROADS, DRIVEWAYS AND AISLES SHALL HAVE A MINIMUM OF 6" OF CLASS 2 AGGREGATE BASE, A MINIMUM OF 25' WIDE AND SHALL BE CAPABLE OF SUPPORTING A 75,000 LB LOAD THAT WILL ALLOW FOR INGRESS AND EGRESS OF FIRE APPARATUS TO WITHIN 150' OF ALL PILES AND STRUCTURES AND SHALL HAVE A VERTICAL CLEARANCE OF NO LESS THAN 15'.
- ALL LOG PILES AND OTHER PILES SHALL BE SETBACK A MINIMUM OF 150' FROM ALL OUTSIDE PROPERTY LINES AND ANY PERMANENT STRUCTURES. THERE SHALL BE AN AREA OF DEFENSIBLE SPACE THAT IS A MINIMUM OF 150' WIDE AROUND THE PERIMETER OF THE TEMPORARY LOG STORAGE AREA THAT SHALL NOT BE GRADED BUT SHALL BE KEPT CLEAR OF GRASS AND VEGETATION TO SUPPORT FIRE PROTECTION BY CLEARING, DISKING, GRUBBING, AND/OR SCRAPING. CAL-FIRE SHALL HAVE DISCRETION TO ADDRESS UNIQUE CIRCUMSTANCES.
- THE SITE SHALL HAVE A SEALED BOX OF TOOLS THAT SHALL BE LOCATED, WITHIN THE OPERATING AREA, AT A POINT ACCESSIBLE IN THE EVENT OF FIRE. THIS FIRE TOOLBOX SHALL CONTAIN: 1 BACKPACK PUMP-TYPE FIRE EXTINGUISHER FILLED WITH WATER, 2 AXES, 2 MCLDOD FIRE TOOLS AND A SUFFICIENT NUMBER OF SHOVELS SO THAT EACH EMPLOYEE AT THE OPERATION CAN BE EQUIPPED TO FIGHT FIRE. IN ADDITION, ONE OR MORE SERVICEABLE CHAINSAWS OF 3-1/2 OR MORE HORSEPOWER WITH A CUTTING BAR 20" IN LENGTH OR LONGER SHALL BE IMMEDIATELY AVAILABLE WITHIN THE OPERATING AREA.

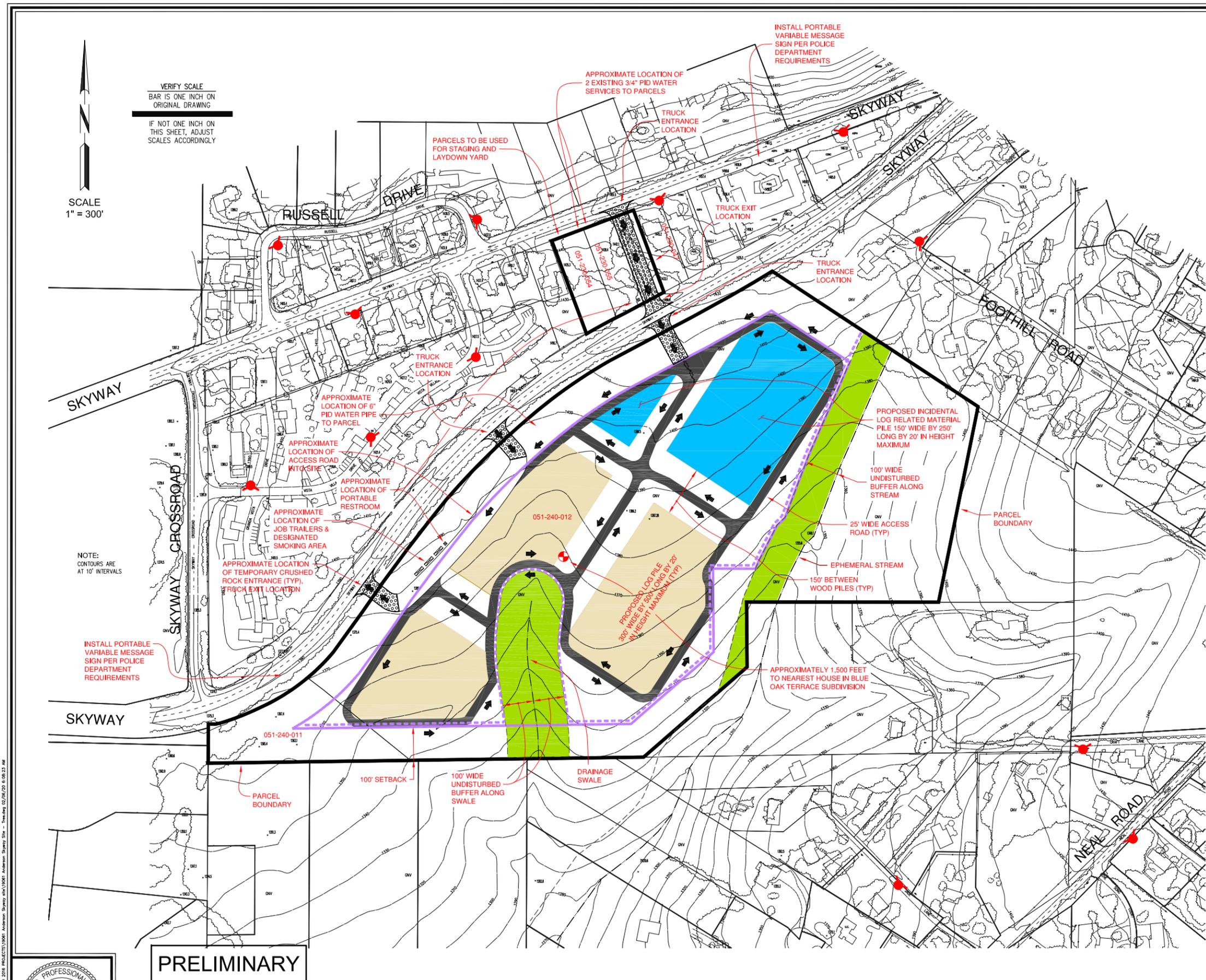
PROPOSED USE

- USE OF THE PARCELS IS RELATED TO LOG STORAGE AND PROCESSING FOR THE TOWN OF PARADISE DUE TO THE CAMP FIRE. THE SITE WAS ENTIRELY BURNED DURING THE FIRE. ALL FIRE DEBRIS HAS BEEN REMOVED FROM THE SITE AND WOOD CHIPS CURRENTLY COVER THE SITE.

LEGEND

- APPROXIMATE SITE BOUNDARY
- 100' SITE SETBACK
- PROPOSED FIBER ROLL OR SILT FENCE
- UNDISTURBED AREA WITHIN 100' FROM STREAM OR SWALE
- PROPOSED LOG PILE AREA
- PROPOSED INCIDENTAL LOG RELATED MATERIAL PILE
- PROPOSED 25' WIDE ACCESS ROAD
- APPROXIMATE LOCATION OF FIRE HYDRANT (PER TOWN OF PARADISE GIS INFORMATION)
- DIRECTION OF TRUCK TRAFFIC

DESIGNED	KLD
DRAWN	CAD
CHECKED	PWR
DRAWING NO.	1 OF 1
JOB NO.	19061



VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE
1" = 300'

NOTE:
CONTOURS ARE AT 10' INTERVALS

PRELIMINARY



APPROVED
DATE FEBRUARY, 2020

PREPARED FOR:
ANDERSON BROTHERS CORPORATION

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

146

SKYWAY SITE
TEMPORARY LOG STORAGE YARD USE PERMIT - PLOT PLAN

January 31, 2020

Anderson Brothers Corporation
Attn: Dave Anderson
1545 Elliot Road
Paradise, CA 95969

RE: Preliminary Wetland Assessment of the Skyway Wood Storage Project Site, Paradise, Butte County, CA.

Mr. Anderson,

On January 29, 2020, Gallaway Enterprises senior botanist, Elena Gregg, conducted a preliminary wetland assessment of US Army Corps of Engineers (Corps) jurisdictional waters of the United States (WOTUS) within the Skyway Wood Storage project (Project) site consisting of five parcels (APN 051-230-047, 051-230-054, 051-230-055, 051-240-011 and 051-240-012) totaling approximately 42-acres located along the southwestern boundary of the Town of Paradise, Butte County, CA. The Project site is located just east of Skyway Crossroad Road and includes land on both sides of the eastbound lanes of Skyway Road (**Exhibit A**). The following summarizes the results of the preliminary wetland assessment.

Environmental Setting and Site Conditions

The Project is located within the Town of Paradise, Butte County, CA. The Project site lies within the Hamlin Canyon United States Geologic Survey (USGS) 7.5' Quadrangle in Section 21, Township 22N, Range 3E.

The site slopes to the south/southwest with a wide, shallow dip in the approximate center of the site and a drainage running north to south along the eastern boundary of the site. Prior to the 2018 Camp Fire, the site was primarily composed of dense chaparral habitat with patches of mixed hardwood conifer woodland dominated by foothill pines (*Pinus sabiniana*), ponderosa pines (*Pinus ponderosa*) and black oaks (*Quercus kelloggii*). A few dirt access roads occurred throughout the Project site. Currently, the Project site is dominated by barren land and disturbed annual grassland habitat with only the eastern edge of the Project site still containing remnant trees and shrubs that had burned in the fire but are now re-sprouting. Much of the site has been masticated, scraped and the mulch spread on the site due to the fire clean-up efforts. Also, a few gravel access roads occur within the Project site. The Project site is bound to the north by Skyway Road, to the west by Bay Tree Drive, to the south by open land and to the east by residential parcels.

Survey Methods

The Project site was surveyed on-foot by Gallaway Enterprises staff on January 29, 2020 to identify any potentially jurisdictional features. The survey, mapping efforts, and report production were performed according to the valid legal definitions of WOTUS in effect on January 29, 2020. The boundaries of non-tidal, non-wetland waters, when present, were delineated at the ordinary high water mark (OHWM) as defined in 33 Code of Federal Regulations (CFR) 328.3. The OHWM represents the limit of potential Corps jurisdiction over non-tidal waters (e.g., streams and ponds) in the absence of adjacent wetlands (33 CFR 328.04) (Curtis, et. al. 2011). Wetland perimeters based on the *United States Army Corps of Engineers Wetlands Delineation Manual* (1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region* (2008) (Arid West Manual) were recorded and defined, when present, according to their topographic and hydrologic orientation.

Survey Results

Gallaway Enterprises found evidence of only one jurisdictional drainage feature according to the valid legal definitions of WOTUS in effect on January 29, 2020 (**Exhibit B**). This drainage had a pond feature within its banks that has formed due to the presence of a partial impoundment. Vegetation within this drainage was dominated by seasonal wetland vegetation including nutsedge (*Cyperus eragrostis*), pacific rush (*Juncus effusus*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*) and curly dock (*Rumex crispus*) with a few scattered willows (*Salix* sp.). This drainage flows north to southwest near the eastern edge of the Project site and is an unnamed tributary of Hamlin Slough. The wide shallow dip in the approximate center of the Project site contained drainage-like topography with drainage patterns and small areas with minimal scour, but did not exhibit an ordinary high water mark (OHWM) or a bed or bank (see site photos in **Exhibit C** and the location of the photo points in **Exhibit B**). Further, the vegetation present in this drainage-like area was dominated by upland plant species. Therefore, this drainage-like area did not meet the definition or any of the requirements to be considered a Corps jurisdictional feature.

If you have any questions, please do not hesitate to contact me at our office (530) 332-9909.

Sincerely,

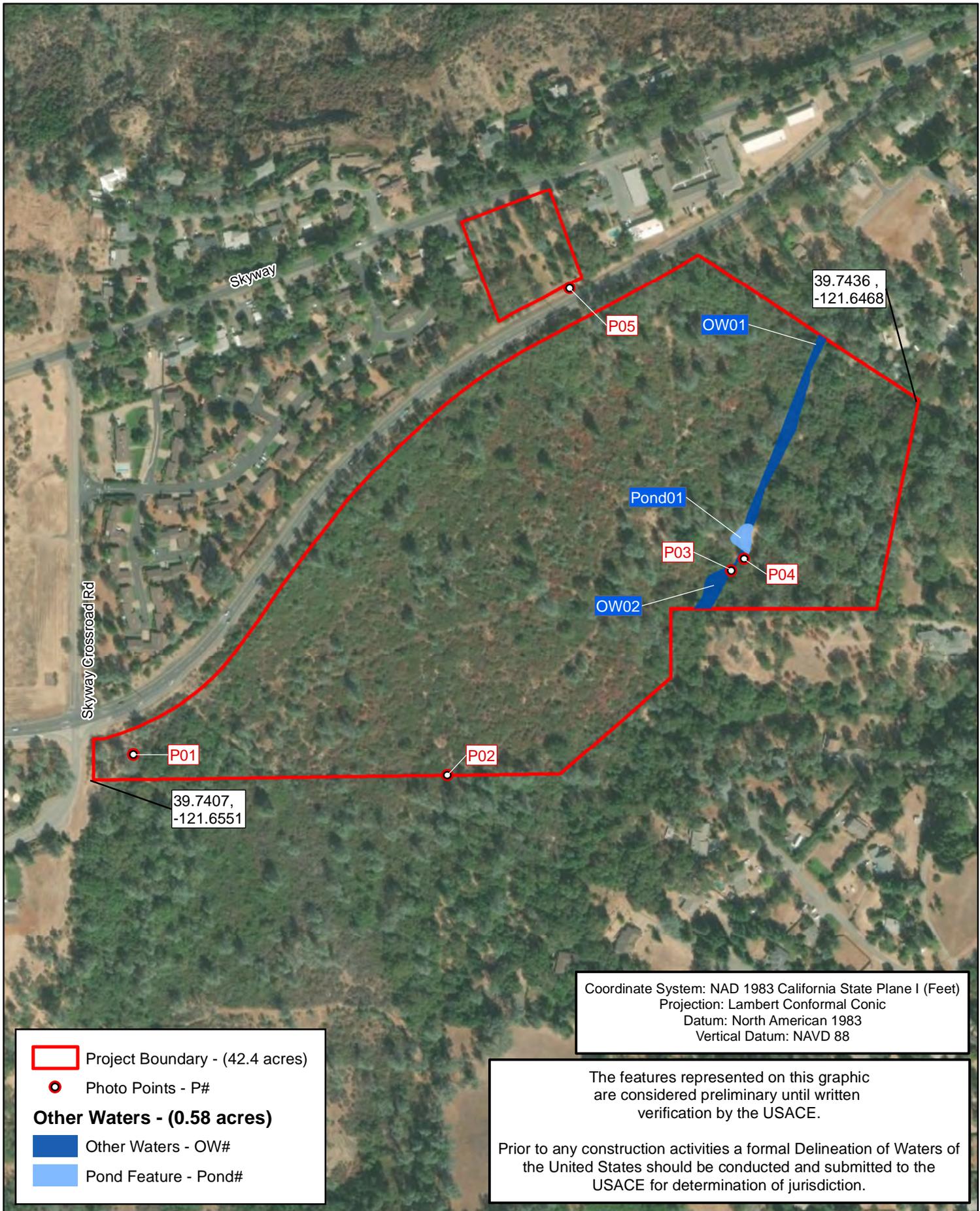


Elena Gregg, Botanist
Gallaway Enterprises

Encl.: Exhibit A. Property Location Map
Exhibit B. Preliminary Wetland Map
Exhibit C. Site Photographs

Exhibit A: Property Location Map

Exhibit B: Preliminary Wetland Map



Coordinate System: NAD 1983 California State Plane I (Feet)
 Projection: Lambert Conformal Conic
 Datum: North American 1983
 Vertical Datum: NAVD 88

Project Boundary - (42.4 acres)

● Photo Points - P#

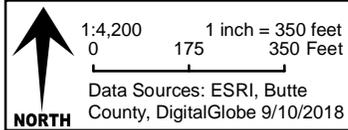
Other Waters - (0.58 acres)

■ Other Waters - OW#

■ Pond Feature - Pond#

The features represented on this graphic are considered preliminary until written verification by the USACE.

Prior to any construction activities a formal Delineation of Waters of the United States should be conducted and submitted to the USACE for determination of jurisdiction.



Skyway Wood Storage Anderson
 Preliminary Assessment of Waters of the U.S.
 Exhibit B

Exhibit C: Site Photographs

Site Photographs Taken on January 29, 2020



P01 – Overview of Project site taken just east of Bay Tree Drive looking northeast



P02 – Picture taken on the southern boundary looking north at the non-jurisdictional drainage-like area (note dominance of upland vegetation and lack of OHWM)



P02 – Picture taken on the southern boundary looking south at the non-jurisdictional drainage-like area (note presence of drainage patterns but no OHWM, bed or bank)



P03 – Picture of the drainage in the eastern portion of the Project site looking southwest



P04 – Picture of the ponded area within the drainage looking northeast



P05 – Overview of the portion of the Project site located between the east bound and west bound lanes of Skyway Road looking northwest

BIOLOGICAL RESOURCE ASSESSMENT

Terrestrial Wildlife and Botanical Resources

Skyway Wood Storage Project

Town of Paradise, California

January 2020



Prepared for:
Anderson Brother Corporation
1545 Elliot Road
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CONTENTS

INTRODUCTION.....	1
Purpose and Overview.....	1
Project Location and Environmental Setting.....	1
Project Description.....	4
METHODS.....	4
References Consulted.....	4
Special-Status Species.....	4
Critical Habitat.....	6
Sensitive Natural Communities.....	6
Waters of the United States.....	6
Habitat Assessments.....	6
RESULTS.....	6
Habitats.....	6
Annual Grassland.....	6
Barren.....	7
Riverine.....	7
Critical Habitat.....	7
Sensitive Natural Communities.....	7
Waters of the United States.....	7
Special-Status Species.....	9
Endangered, Threatened, and Rare Plants.....	16
Endangered, Threatened, and Special-status Wildlife.....	16
REGULATORY FRAMEWORK.....	17
Federal.....	18
Federal Endangered Species Act.....	18
Migratory Bird Treaty Act.....	18
State of California.....	19
California Endangered Species Act.....	19
California Fish and Game Code (§3503.5).....	19
California Migratory Bird Protection Act.....	20

Rare and Endangered Plants.....	20
California Environmental Quality Act Guidelines §15380.....	21
CONCLUSIONS AND RECOMMENDATIONS.....	21
Endangered, Threatened, and Rare Plants	21
Endangered, Threatened, and Special-status Wildlife.....	21
Other Natural Resources.....	22
REFERENCES.....	23
LIST OF PREPARERS.....	24

FIGURES

Figure 1. Regional Location.....	2
Figure 2. Biological Survey Area.....	3
Figure 3. CNDDDB Occurrences and Critical Habitat.....	5
Figure 4. Preliminary Assessment of Waters of the United States.....	8

TABLES

Table 1. Special-status species and their potential to occur in the BSA of the Skyway Wood Storage Project, Butte County, CA	9
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APPENDICES

Appendix A.....	Species Lists
Appendix B.....	Observed Plant and Wildlife Species List
Appendix C.....	Project Site Photos

BIOLOGICAL RESOURCE ASSESSMENT

Skyway Wood Storage Project

Project Location:

Town of Paradise, California
Section 21, Township 22N, Range 3E

INTRODUCTION

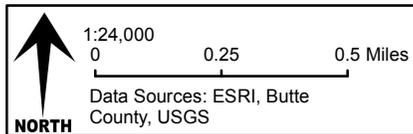
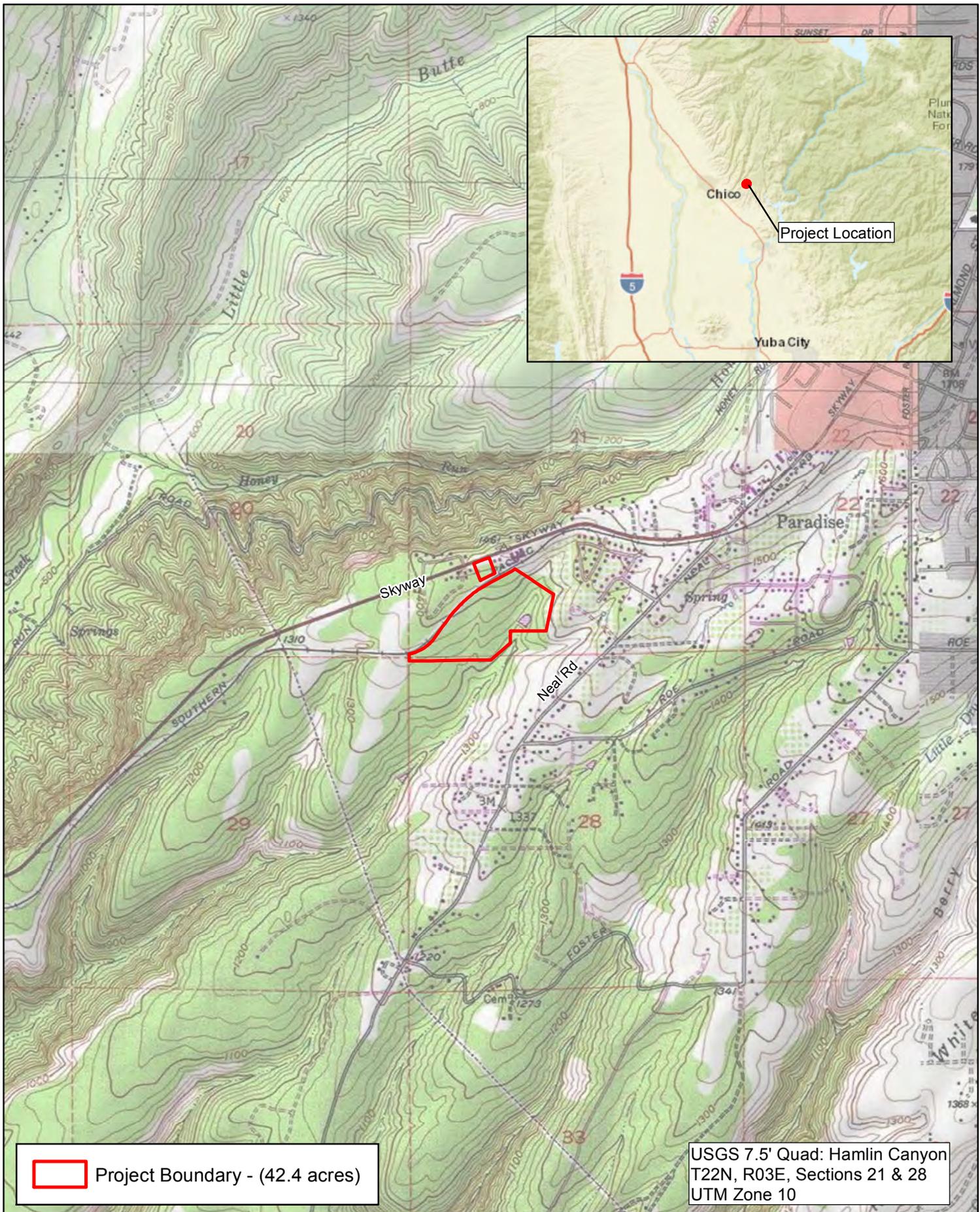
Purpose and Overview

The purpose of this biological resource assessment (BRA) is to document the endangered, threatened, sensitive, and rare species and their habitats that occur or may occur in the biological survey area (BSA) of the Skyway wood storage project (Project) area located along the southwestern boundary of the Town of Paradise, Butte County, California (**Figure 1**). The Project area is located just east of Skyway Crossroad Road and includes land on both sides of the eastbound lanes of Skyway Road. The Project area is approximately 42 acres.

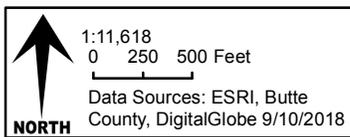
The BSA is the area where biological surveys are conducted (**Figure 2**). Gallaway Enterprises conducted biological and botanical habitat assessments in the BSA to evaluate site conditions and potential for biological and botanical species to occur. Other primary references consulted include species lists and information gathered using United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation System (IPaC), California Department of Fish and Wildlife's (CDFW) Natural Diversity Database (CNDDDB), the California Native Plant Society's (CNPS) list of rare and endangered plants, and literature review. The results of the BRA are the findings of habitat assessments and surveys and recommendations for avoidance and minimization measures.

Project Location and Environmental Setting

The BSA is located within the Town of Paradise, Butte County, CA. The BSA lies within the "Hamlin Canyon" United States Geologic Survey (USGS) 7.5' quadrangle in Section 21, Township 22N, Range 3E; latitude 39.7407, longitude -121.6551. On November 8, 2018, the BSA and the surrounding area were burned in the Camp Fire. Prior to the Camp Fire, the BSA was primarily composed of dense chaparral habitat with patches of mixed hardwood conifer woodland dominated by foothill pines (*Pinus sabiniana*), ponderosa pines (*Pinus ponderosa*) and black oaks (*Quercus kelloggii*). A few dirt access roads occurred throughout the BSA. Currently, the BSA is dominated by barren land and disturbed annual grassland habitat with only the eastern edge of the BSA still containing remnant trees and shrubs that had burned in the fire but are now re-sprouting. Much of the BSA has been masticated, scraped and the mulch spread throughout the site due to the fire clean-up efforts. A few gravel access roads occur within the BSA. The BSA slopes to the south/southwest with a wide, shallow dip in the approximate center of the BSA and a drainage running north to south along the eastern boundary of the BSA. The BSA is bound to the north by Skyway Road, to the west by Bay Tree Drive, to the south by open land and to the east by residential parcels.



Skyway Wood Storage Project
Regional Location
Figure 1



Skyway Wood Storage Project
Biological Survey Area
Figure 2

The dominate soil type within the BSA is Ultic Haploxeralfs, 15 to 30 percent slopes; gravelly loam, well-drained with a restrictive layer 20 to 60 inches depth. The elevation of the BSA ranges from 1325 feet to 1450 feet. The average annual precipitation for the area is 54.84 inches and the average temperature is 60.4° F (Western Regional Climate Center 2020).

Project Description

The proposed project consists of a temporary log storage yard intended to receive and process tree debris resulting from tree removal activities in the area.

METHODS

References Consulted

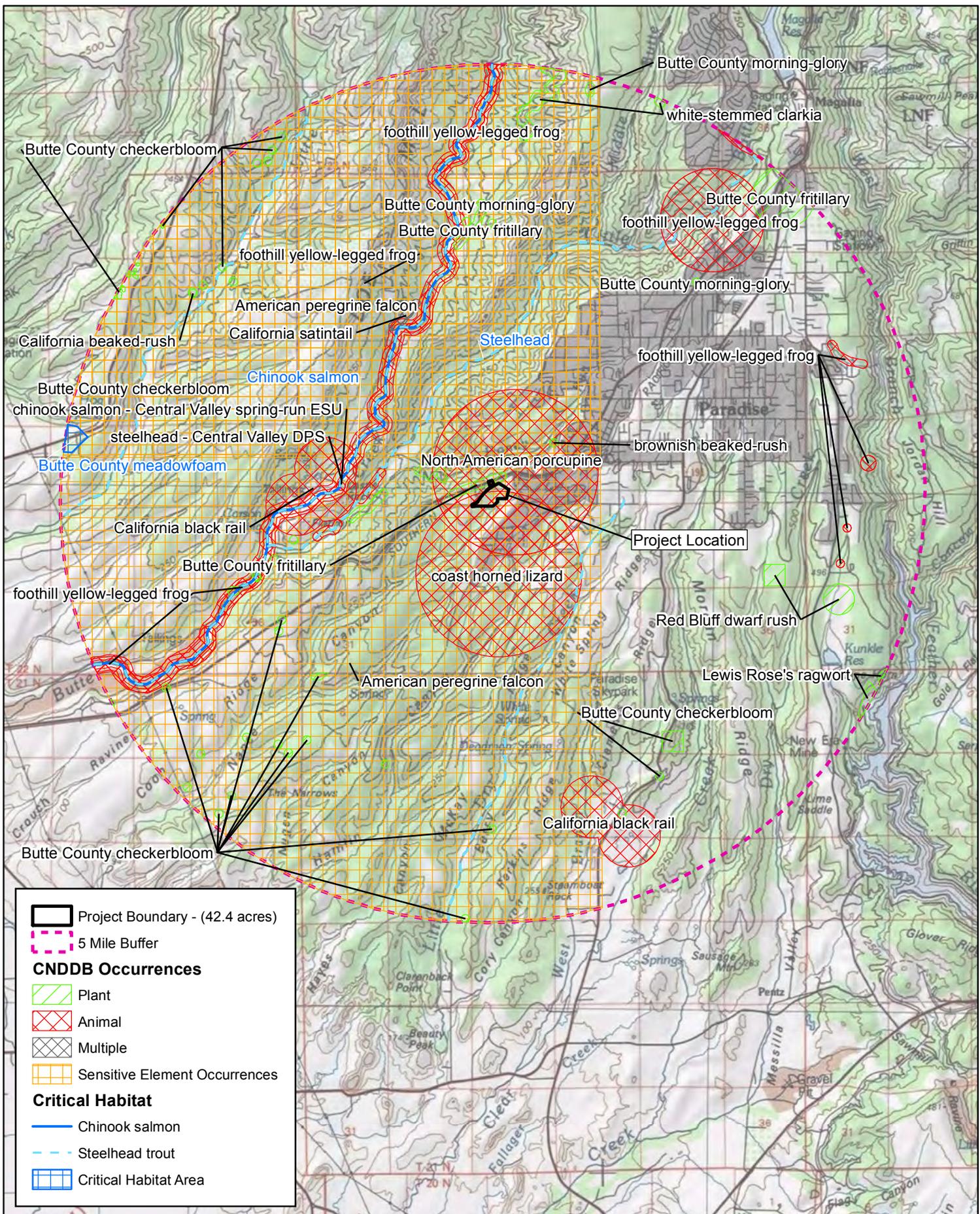
Gallaway Enterprises obtained lists of special-status species that occur in the vicinity of the BSA. The CNDDDB Geographic Information System (GIS) database was also consulted and showed special-status species within a 5-mile radius of the BSA (**Figure 3**). Other primary sources of information regarding the occurrence of federally listed threatened, endangered, proposed, and candidate species and their habitats within the BSA used in the preparation of this BRA are:

- The USFWS IPaC Official Species List for the Project area, January 30, 2020, Consultation Code 08ESMF00-2020-SLI-0641 (**Appendix A; Species Lists**);
- The results of a species record search of the CDFW CNDDDB RareFind 5 for the 7.5 minute USGS “Paradise East, Paradise West, Cherokee, and Hamlin Canyon” quadrangles (**Appendix A; Species Lists**);
- The review of the CNPS Inventory of Rare and Endangered Vascular Plants of California for the 7.5 minute USGS “Paradise East, Paradise West, Cherokee, and Hamlin Canyon” quadrangles (**Appendix A; Species Lists**);
- USFWS Critical Habitat Portal, January 30, 2020; and
- Results from the habitat assessments conducted by Gallaway Enterprises on January 30, 2020 (**Appendix B; Observed Species List**).

Special-Status Species

Special-status species that have potential to occur in the BSA are those that fall into one of the following categories:

- Listed as threatened or endangered, or are proposed or candidates for listing under the California Endangered Species Act (CESA, 14 California Code of Regulations 670.5) or the Federal Endangered Species Act (ESA, 50 Code of Federal Regulations 17.12);
- Listed as a Species of Special Concern (SSC) by CDFW or protected under the California Fish and Game Code (CFG) (e.g. Fully Protected species);
- Ranked by the CNPS as 1A, 1B, or 2;
- Protected under the Migratory Bird Treaty Act (MBTA);
- Protected under the Bald and Golden Eagle Protection Act; or



1:95,000
 0 0.5 1 Miles
 Data Sources: ESRI, Butte County, USGS, CNDDDB, USFWS

Skyway Wood Storage Project
 CNDDDB Occurrences and Critical Habitat
 Figure 3

- Species that are otherwise protected under policies or ordinances at the local or regional level as required by the California Environmental Quality Act (CEQA §15380).

Critical Habitat

The ESA requires that critical habitat be designated for all species listed under the ESA. Critical habitat is designated for areas that provide essential habitat elements that enable a species survival and which are occupied by the species during the species listing under the ESA. Areas outside of the species range of occupancy during the time of its listing can also be determined as critical habitat if the agency decides that the area is essential to the conservation of the species. The USFWS Critical Habitat Portal was accessed on January 29, 2020 to determine if critical habitat occurs within the BSA. Appropriate Federal Registers were also used to confirm the presence or absence of critical habitat.

Sensitive Natural Communities

Sensitive Natural Communities (SNCs) are monitored by CDFW with the goal of preserving these areas of habitat that are rare or ecologically important. Many SNCs are designated as such because they represent a historical landscape and are typically preserved as valued components of California's diverse habitat assemblage.

Waters of the United States

An aquatic resources assessment of the Project site was conducted by Gallaway Enterprises on January 29, 2020.

Habitat Assessments

Habitat assessments were conducted by Gallaway Enterprises staff on January 29, 2020. A wildlife habitat assessment was conducted by Biologist Samantha Morford. Senior Botanist Elena Gregg conducted a botanical habitat assessment within the BSA.

Habitat assessments for botanical and wildlife species were conducted to determine the suitable habitat elements for special-status species within the BSA. The habitat assessments were conducted by walking the entire BSA, where accessible, and recording observed species and specific habitat types and elements. If habitat was observed for special-status species it was then evaluated for quality based on vegetation composition and structure, physical features (e.g. soils, elevation), microclimate, surrounding area, presence of predatory species and available resources (e.g. prey items, nesting substrates), and land use patterns.

RESULTS

Habitats

Annual Grassland

The BSA currently consists of a mesic of disturbed annual grassland. Within the BSA, annual grassland occurs in undisturbed areas as well as most of the site where the land has been scraped during cleanup activities following the Camp Fire. Some of the dominant plant species observed in the disturbed annual

grassland habitat within the BSA include rye-grass (*Festuca perennis*), hedge mustard (*Sisymbrium officinale*), yellow star thistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), and Scotch broom (*Cytisus scoparius*). At the time of the site visit, live oak (*Quercus wislizeni*) saplings and western redbud (*Cercis occidentalis*) saplings were scattered throughout the annual grassland. A variety of ground nesting avian species, reptiles, and small mammals use grassland habitat for breeding, while many other wildlife species use it primarily for foraging or require other habitat characteristics such as rocky outcroppings, cliffs, caves, or ponds in order to find shelter and cover for escapement. Common species found utilizing this habitat type include western fence lizards (*Sceloporus occidentalis*), common garter snakes (*Thamnophis elegans*), California ground squirrels (*Otospermophilus beecheyi*), jackrabbits (*Lepus californicus*), and a variety of avian species.

Barren

Barren habitat is typified by non-vegetated soil, rock, and gravel. Any habitat with <2% total vegetation cover by herbaceous, desert, or non-wildland species and <10% cover by tree or shrub species is defined this way. The areas within the BSA with bare soil or covered by mulched woody debris is consisted to be barren habitat. Additionally, the gravel access roads also provide barren habitat. The barren habitat type typically provides low quality habitat to wildlife. Some ground-nesting birds, such as killdeer (*Charadrius vociferus*), will nest in gravelly, barren substrate.

Riverine

The riverine habitat within the BSA consists of a heavily vegetated seasonal drainage that flows north to southwest along the eastern edge of the BSA. Vegetation within the riverine habitat was dominated by seasonal wetland vegetation including nutsedge (*Cyperus eragrostis*), pacific rush (*Juncus effusus*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*) and curly dock (*Rumex crispus*) with a few scattered willows (*Salix* sp.).

Critical Habitat

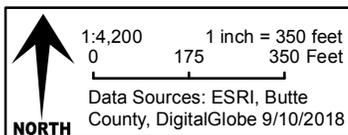
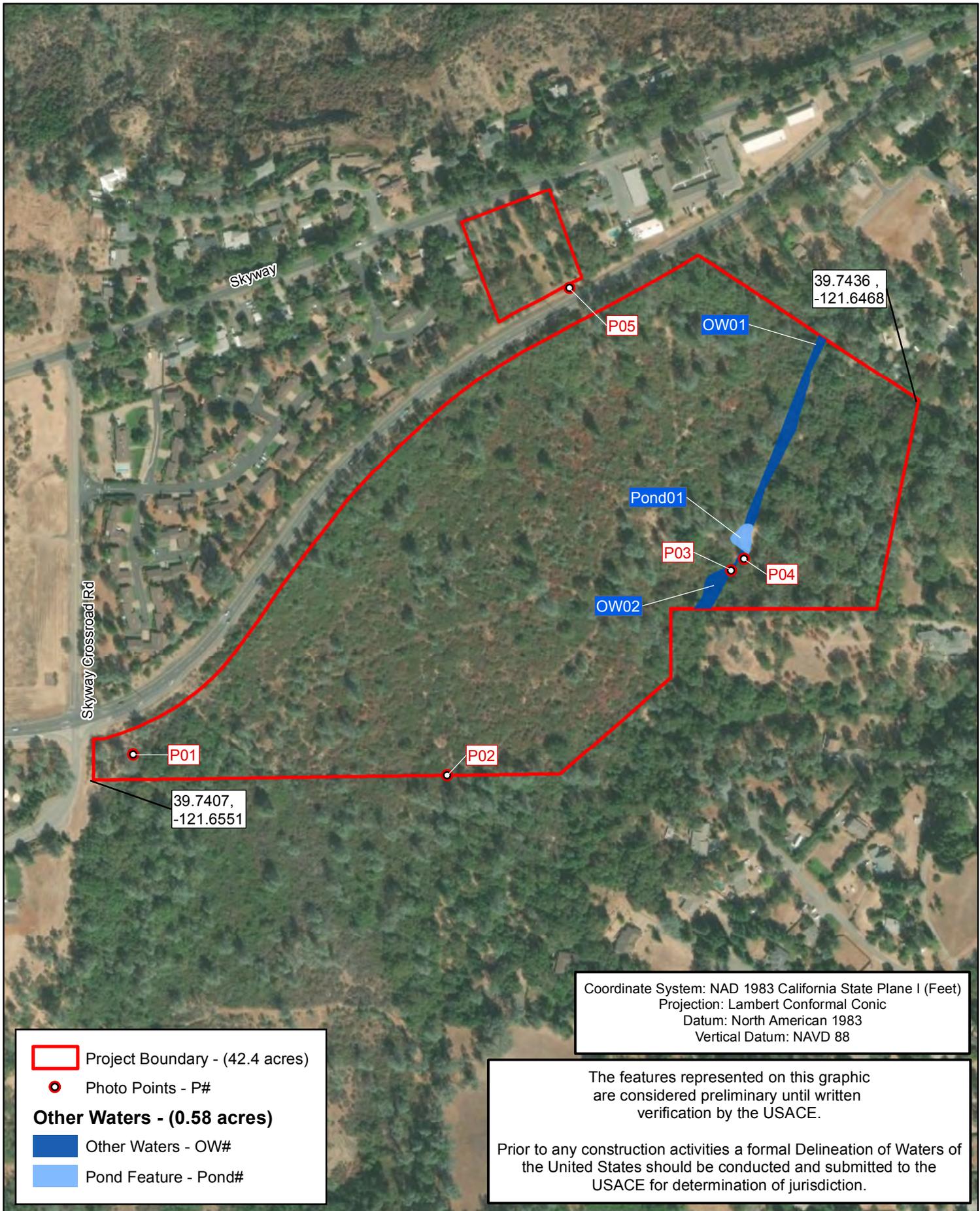
There is no designated critical habitat within the BSA.

Sensitive Natural Communities

No SNCs occur within the BSA.

Waters of the United States

Gallaway Enterprises found evidence of one potentially jurisdictional drainage within the BSA (**Figure 4**). All features within the report should be considered jurisdictional until verified by the Army Corps of Engineers.



Skyway Wood Storage Project
 Preliminary Assessment of Waters of the U.S.
 Figure 4

Special-Status Species

A summary of special-status species assessed for potential occurrence within the BSA based on the USFWS IPaC and CNDDDB species lists and the CNPS lists of rare and endangered plants within the Paradise East, Paradise West, Cherokee, and Hamlin Canyon USGS 7.5 minute quadrangles, and their potential to occur within the BSA is described in **Table 1**. Potential for occurrence was determined by reviewing database queries from federal and state agencies, performing surveys, and evaluating habitat characteristics.

Table 1. Special-status species and their potential to occur in the BSA of the Skyway Wood Storage Project, Butte County, CA

Common Name (<i>Scientific Name</i>)	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
SENSITIVE NATURAL COMMUNITIES			
Great Valley Cottonwood Riparian Forest	_/_SNC/_	Riparian forest.	<u>None</u> . There is no designated Great Valley Cottonwood Riparian Forest within the BSA.
Northern Basalt Flow Vernal Pool	_/_SNC/_	Vernal pools.	<u>None</u> . There is no designated Northern Basalt Flow Vernal Pool within the BSA.
Northern Hardpan Vernal Pool	_/_SNC/_	Vernal pools.	<u>None</u> . There is no designated Northern Hardpan Vernal Pool within the BSA.
PLANTS			
Adobe lily (<i>Fritillaria pluriflora</i>)	_/_1B.2	Adobe soils. (Blooming Period [BP]: Feb – Apr)	<u>None</u> . There are no adobe soils present within the BSA.
Ahart’s buckwheat (<i>Eriogonium umbellatum</i> <i>var. ahartii</i>)	_/_1B.2	Serpentinite; on slopes and openings in chaparral, cismontane woodland. (BP: Jun – Sep)	<u>None</u> . There is no suitable habitat present within the BSA.
Brownish beaked-rush (<i>Rhynchospora capitellata</i>)	_/_2B.2	Mesic sites in montane coniferous forest, meadows and seeps, marshes and swamps. (BP: Jul – Aug)	<u>None</u> . There is no suitable habitat present within the BSA.

Common Name <i>(Scientific Name)</i>	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
Butte County checkerbloom <i>(Sidalcea robusta)</i>	_/_/1B.2	Small draws and rocky crevices in chaparral, cismontane woodland. (BP: Apr – Jun)	<u>None</u> . There is no suitable habitat present within the BSA.
Butte County fritillary <i>(Fritillaria eastwoodiae)</i>	_/_/3.2	Usually on dry slopes but also found in wet places; soils can be serpentine, red clay, or sandy in chaparral, cismontane woodland, lower montane coniferous forest. (BP: Mar – Jun)	<u>None</u> . A CNDDDB occurrence (#51), recorded in 1978, overlaps with a portion of the BSA. The locational information was recorded as being vague. This area of the BSA was scrapped and masticated during the post fire clean up. There is currently no suitable habitat present.
California beaked-rush <i>(Rhynchospora californica)</i>	_/_/1B.1	Freshwater seeps and open marshy areas; bogs and fens, lower montane coniferous forest. (BP: May – Jul)	<u>None</u> . There is no suitable habitat present within the BSA.
California satintail <i>(Imperata brevifolia)</i>	_/_/2B.1	Alkaline seeps and mesic riparian scrub. (BP: Sep – May)	<u>None</u> . There is no suitable habitat present within the BSA and the species was not observed during the site visit.
Caribou coffeeberry <i>(Frangula purshiana ssp. ultramafica)</i>	_/_/1B.2	On serpentinite soils in lower montane coniferous forest, upper montane coniferous forest, chaparral, meadows and seeps. (BP: May – Jun)	<u>None</u> . There is no suitable habitat present within the BSA. BSA is outside of species known elevational range.
Chaparral sedge <i>(Carex xerophila)</i>	_/_/1B.2	Serpentinite, gabbroic soils in chaparral, cismontane woodland, lower montane coniferous forest. (BP: Mar – Jun)	<u>None</u> . There is no suitable habitat present within the BSA.

Common Name <i>(Scientific Name)</i>	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
Closed-throated beardtongue <i>(Penstemon personatus)</i>	_/_/1B.2	Usually on north-facing slopes in metavolcanic soils in montane coniferous forest, chaparral. (BP: Jun – Sep)	<u>None</u> . There is no suitable habitat present within the BSA.
Colusa layia <i>(Layia septentrionalis)</i>	_/_/1B.2	Fields and grassy slopes in sandy or serpentine soil. (BP: Apr- May)	<u>None</u> . There is no suitable habitat present within the BSA.
Dissected-leaved toothwort <i>(Cardamine pachystigma var. dissectifolia)</i>	_/_/1B.2	Serpentine outcrops and gravelly serpentine talus associated with chaparral, lower montane coniferous forest. (BP: Feb – May)	<u>None</u> . There is no suitable habitat present within the BSA.
Greene’s tuctoria <i>(Tuctoria greenei)</i>	FE/SR/1B.1	Vernal pools in open grasslands. (BP: May – Jul [Sept])	<u>None</u> . There is no vernal pool habitat present within the BSA.
Hairy Orcutt grass <i>(Orcuttia pilosa)</i>	FE/SE/1B.1	Vernal pools. (BP: May – Sep)	<u>None</u> . There is no vernal pool habitat present within the BSA. The BSA is outside of the species known elevational range.
Hoover’s spurge <i>(Chamaesyce hooveri)</i>	FT/_/1B.1	Vernal pools on volcanic mudflow or clay substrate. (BP: Jul – Sept [Oct])	<u>None</u> . There is no vernal pool habitat present within the BSA. The BSA is outside of the species known elevational range.
Jepson's onion <i>(Allium jepsonii)</i>	_/_/1B.2	On serpentine soils in Sierra foothills, volcanic soil on Table Mountain. On slopes and flats; usually in an open area. (BP: Apr – Aug)	<u>None</u> . There is no suitable habitat present within the BSA.

Common Name (<i>Scientific Name</i>)	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
Lewis Rose's ragwort (<i>Packera eurycephala</i> <i>var. lewisrosei</i>)	_/_/1B.2	Steep slopes and in canyons in serpentine soil, often along or near roads in cismontane woodland, lower montane coniferous forest, chaparral. (BP: Mar – July)	<u>None</u> . There is no suitable habitat present within the BSA.
Mildred's clarkia (<i>Clarkia mildrediae</i> ssp. <i>mildrediae</i>)	_/_/1B.3	On decomposed granite; sometimes on roadsides in cismontane woodland and lower montane coniferous forest. (BP: May – Aug)	<u>None</u> . There is no suitable habitat present within the BSA.
Mosquin's clarkia (<i>Clarkia mosquinii</i>)	_/_/1B.1	Cismontane woodland, lower montane coniferous forest. (BP: May- Jul [Sept])	<u>None</u> . There is no suitable habitat present within the BSA.
Pink creamsacs (<i>Castilleja rubicundula</i> <i>var.</i> <i>rubicundula</i>)	_/_/1B.2	Seeps and mesic area in serpentine soils. (BP: Apr-Jun)	<u>None</u> . There is no suitable habitat present within the BSA.
Red Bluff dwarf rush (<i>Juncus leiospermus</i> <i>var.</i> <i>leiospermus</i>)	_/_/1B.1	Vernal pools and vernal mesic sites. (BP: Mar-Jun)	<u>None</u> . There is no suitable habitat present within the BSA.
Veiny monardella (<i>Monardella venosa</i>)	_/_/1B.1	Heavy clay soils in cismontane woodland and valley and foothill grassland. (BP: May, Jul)	<u>None</u> . There is no suitable habitat present within the BSA.
White-stemmed clarkia (<i>Clarkia gracilis</i> ssp. <i>albicaulis</i>)	_/_/1B.2	Dry, grassy openings in chaparral or foothill woodland. Sometimes on serpentine. (BP: May – Jul)	<u>None</u> . There is no suitable habitat present within the BSA.

Common Name (<i>Scientific Name</i>)	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
Wooly rose mallow (<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>)	_/_/1B.2	Freshwater marshes and swamps, often in rip-rap. (BP: Jun – Sep)	<u>None</u> . There is no suitable habitat present within the BSA. The BSA is outside of the species known elevational range.
INVERTEBRATES			
Conservancy fairy shrimp (<i>Branchinecta conservatio</i>)	FE/_/_	Moderately turbid, deep, cool-water vernal pool.	<u>None</u> . There are no vernal pools within the BSA.
Valley Elderberry Longhorn Beetle (<i>Desmocerus californicus dimorphus</i>)	FT/_/_	Blue elderberry shrubs usually associated with riparian areas.	<u>None</u> . Two isolated blue elderberry shrubs that were less than one inch in diameter at ground level were observed within the BSA. No exit holes were observed.
Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	FT/_/_	Vernal pools and seasonally ponded areas.	<u>None</u> . There is no suitable vernal habitat within the BSA.
Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>)	FE/_/_	Vernal pools.	<u>None</u> . There are no vernal pools within the BSA.
FISH			
Chinook salmon <i>Central Valley spring-run</i> (<i>Oncorhynchus tshawytscha</i>)	FT/ST/_	Sacramento River and its tributaries.	<u>None</u> . There is no suitable aquatic habitat present within the BSA.
Steelhead <i>Central Valley DPS</i> (<i>Oncorhynchus mykiss</i>)	FT/_/_	Sacramento River and its tributaries.	<u>None</u> . There is no suitable aquatic habitat present within the BSA.
Delta smelt (<i>Hypomesus transpacificus</i>)	FT/SE/_	Found only from the San Pablo Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano, and Yolo Counties.	<u>None</u> . The BSA is not within the range of Delta smelt, nor is there suitable aquatic habitat present.

Common Name (Scientific Name)	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
HERPTILES			
<p>Coast horned lizard (<i>Phrynosoma blainvillii</i>)</p>	<p>_/SSC/_</p>	<p>Most common in open areas with sandy soils and low vegetation. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.</p>	<p><u>None</u>. There is currently no suitable habitat within the BSA. The BSA is void of bushes for cover and the soil is not suitable. CNDDDB occurrence (#666) overlaps with the BSA however, it was recorded in 1933 and was mapped within a mile of accuracy.</p>
<p>California red-legged frog (<i>Rana draytonii</i>)</p>	<p>FT/SSC/_</p>	<p>Streams with consistent flow, slow side waters with cobble and boulders for oviposition.</p>	<p><u>None</u>. The riverine habitat within the BSA is seasonal and does not provide suitable habitat. The nearest CNDDDB occurrence (#447) is 13.16 miles east of the BSA and was recorded in 2007.</p>
<p>Foothill yellow-legged frog Northern Sierra clade (<i>Rana boylei</i>)</p>	<p>_/ST/_</p>	<p>Partly shaded, shallow streams and riffles with rocky substrates in a variety of habitats, commonly found in canyons and narrow streams.</p>	<p><u>None</u>. The riverine habitat within the BSA is seasonal and does not provide suitable habitat.</p>
<p>Giant garter snake (<i>Thamnophis gigas</i>)</p>	<p>FT/ST/_</p>	<p>Agricultural wetlands and other wetlands such as irrigation and drainage canals, low gradient streams, marshes ponds, sloughs, small lakes, and their associated uplands.</p>	<p><u>None</u>. The riverine habitat within the BSA is seasonal and does not provide suitable habitat. Additionally, the BSA is outside of the species known elevational range.</p>
<p>Western pond turtle (<i>Emys marmorata</i>)</p>	<p>_/SSC/_</p>	<p>Perennial to intermittent bodies of water with deep pools, locations for haul out, and locations for oviposition.</p>	<p><u>None</u>. There is no suitable habitat within or adjacent to the BSA.</p>

Common Name <i>(Scientific Name)</i>	Status Fed/State/C NPS	Associated Habitats	Potential for Occurrence
Western spadefoot <i>(Spea hammondi)</i>	_/SSC/_	Occurs primarily in grassland habitats. Vernal pools and seasonal drainages are typically used for breeding and egg-laying.	Low. There is a ponded area within the seasonal riverine habitat that provides marginal breeding habitat. Additionally, the effects of fire on this species are unknown.
BIRDS			
American peregrine falcon <i>(Falco peregrinus anatum)</i>	_/FP/_	Tall structures or cliffs for nests, large open areas with abundant food source for foraging.	None. There are no suitable cliffs, large power transmission lines, or other such structures that would provide suitable nesting habitat within the BSA, nor are there large, open areas with abundant food sources to provide foraging habitat.
Bald eagle <i>(Haliaeetus leucocephalus)</i>	_/SE, FP/_	Coasts, large lakes and river systems, with open forests with large trees and snags.	None. There is no suitable foraging or nesting habitat within or adjacent to the BSA.
California black rail <i>(Laterallus jamaicensis coturniculus)</i>	_/ST, FP/_	Brackish and fresh emergent wetlands with dense vegetation (bulrushes and cattails).	None. There is no suitable habitat within or adjacent to the BSA.
Tricolored blackbird <i>(Agelaius tricolor)</i>	_/ST/_	Colonial nester in large freshwater marshes. Forages in open habitats such as farm fields, pastures, cattle pens, large lawns.	None. There is no suitable habitat within or adjacent to the BSA.

CODE DESIGNATIONS	
FE or FT = Federally listed as Endangered or Threatened FC = Federal Candidate Species SE or ST = State listed as Endangered or Threatened SC = State Candidate Species SR = State Rare Species SSC = State Species of Special Concern FP = State Fully Protected Species	CNPS California Rare Plant Rank (CRPR): CRPR 1B = Rare or Endangered in California or elsewhere CRPR 2 = Rare or Endangered in California, more common elsewhere CRPR 3 = More information is needed CRPR 4 = Plants with limited distribution 0.1 = Seriously Threatened

SNC = CDFW Sensitive Natural Community	0.2 = Fairly Threatened 0.3 = Not very Threatened
<p>Potential for Occurrence: for plants it is considered the potential to occur during the survey period; for birds and bats it is considered the potential to breed, forage, roost, or over-winter in the BSA during migration. Any bird or bat species could fly over the BSA, but this is not considered a potential occurrence. The categories for the potential for occurrence include:</p> <p>None: The species or natural community is known not to occur, and has no potential to occur in the BSA based on sufficient surveys, the lack suitable habitat, and/or the BSA is well outside of the known distribution of the species.</p> <p>Low: Potential habitat in the BSA is sub-marginal and/or the species is known to occur in the vicinity of the BSA.</p> <p>Moderate: Suitable habitat is present in the BSA and/or the species is known to occur in the vicinity of the BSA. Pre-construction surveys may be required.</p> <p>High: Habitat in the BSA is highly suitable for the species and there are reliable records close to the BSA, but the species was not observed. Pre-construction surveys required, with the exception of indicators for foraging habitat.</p> <p>Known: Species was detected in the BSA or a recent reliable record exists for the BSA.</p>	

The following special-status species have potential to occur within the BSA based on the presence of suitable habitat and/or known records of species occurrence within the vicinity of the BSA.

Endangered, Threatened, and Rare Plants

There were no endangered, threatened, or rare plants observed within the BSA during the botanical habitat assessment conducted on January 29, 2020. Additionally, no suitable habitats for endangered, threatened, or rare plants were observed during the assessment. A complete list of plant species observed within the BSA can be found in **Appendix B**.

Endangered, Threatened, and Special-status Wildlife

A wildlife habitat assessment was conducted within the BSA on January 29, 2020. Suitable habitat was identified for western spadefoot toad and several avian species protected under the MBTA and CFGC. A complete list of wildlife species observed within the BSA can be found in **Appendix B**.

Western Spadefoot Toad

The western spadefoot toad (*Spea hammondi*) is a SSC in California. It is an endemic species of the state. The western spadefoot toad ranges from the northern point of the Central Valley south to the western corner of California. They are a stocky, small toad that varies in colors from gray, green and brown and typically have four irregular spots or stripes on their back. Their eyes are described as being golden with vertical pupils. The most distinguishing feature of the toad is a hardened, black spade on the hind foot. The spade is used for burrowing into moist soils. Suitable habitat consists of open grasslands with intermittent streams and vernal pools. Vernal pools are essential for breeding and depositing eggs. Current threats facing the western spadefoot toad are loss of habitat, changes in hydrological regimes and human disturbances.

CNDDB Occurrences

The nearest CNDDB occurrence (#485) is approximately eight miles south east of the BSA. This occurrence is estimated to have taken place in the late 1970s.

Status of western spadefoot toad occurring in the BSA

The annual grasslands coupled with the seasonal riverine habitat within the BSA provide marginally suitable habitat for the western spadefoot toad. There is **low** potential for western spadefoot toads to occur within the BSA.

Migratory Birds and Raptors

Nesting birds are protected under the MBTA (16 USC 703), the CFGC (§3503), and the California Migratory Bird Protection Act (CMBPA, AB 454). The MBTA (16 USC §703) prohibits the killing of migratory birds or the destruction of their occupied nests and eggs except in accordance with regulations prescribed by the USFWS. The bird species covered by the MBTA includes nearly all of those that breed in North America, excluding introduced (i.e. exotic) species (50 Code of Federal Regulations §10.13).

The CFGC (§3503.5) states that it is “unlawful to take, possess, or destroy any birds in the order Falconiformes (hawks, eagles, and falcons) or Strigiformes (owls) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.” Take includes the disturbance of an active nest resulting in the abandonment or loss of young. The CFGC (§3503) also states that “it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.”

The CMBPA amends the CFGC (§3513) to mirror the provisions of the MBTA and allow the State of California to enforce the prohibition of take or possession of any migratory nongame bird as designated in the federal MBTA, including incidental take. Activities that involve the removal of vegetation including trees, shrubs, grasses, and forbs or ground disturbance have the potential to affect bird species protected by the MBTA and the CFGC.

CNDDB occurrences

The majority of migratory birds and raptors protected under the MBTA and CFGC are not recorded on the CNDDB because they are abundant and widespread.

Status of migratory birds and raptors occurring in the BSA

There is suitable nesting habitat for a variety of avian species within and adjacent to the BSA.

REGULATORY FRAMEWORK

The following describes federal, state, and local environmental laws and policies that may be relevant if the BSA were to be developed or modified.

Federal

Federal Endangered Species Act

The United States Congress passed the ESA in 1973 to protect species that are endangered or threatened with extinction. The ESA is intended to operate in conjunction with the National Environmental Policy Act (NEPA) to help protect the ecosystems upon which endangered and threatened species depend.

Under the ESA, species may be listed as either “endangered” or “threatened.” Endangered means a species is in danger of extinction throughout all or a significant portion of its range. Threatened means a species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range. All species of plants and animals, except non-native species and pest insects, are eligible for listing as endangered or threatened. The USFWS also maintains a list of “candidate” species. Candidate species are species for which there is enough information to warrant proposing them for listing, but that have not yet been proposed. “Proposed” species are those that have been proposed for listing, but have not yet been listed.

The ESA makes it unlawful to “take” a listed animal without a permit. Take is defined as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct.” Through regulations, the term “harm” is defined as “an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering.”

Migratory Bird Treaty Act

The MBTA (16 USC §703) prohibits the killing of migratory birds or the destruction of their occupied nests and eggs except in accordance with regulations prescribed by the USFWS. The bird species covered by the MBTA includes nearly all of those that breed in North America, excluding introduced (i.e. exotic) species (50 Code of Federal Regulations §10.13).

Clean Water Act, Section 401

The Clean Water Act (§401) requires water quality certification and authorization for placement of dredged or fill material in wetlands and Other Waters of the United States. In accordance with the Clean Water Act (§401), criteria for allowable discharges into surface waters have been developed by the State Water Resources Control Board, Division of Water Quality. The resulting requirements are used as criteria in granting National Pollutant Discharge Elimination System (NPDES) permits or waivers, which are obtained through the Regional Water Quality Control Board (RWQCB) per the Clean Water Act (§402). Any activity or facility that will discharge waste (such as soils from construction) into surface waters, or from which waste may be discharged, must obtain an NPDES permit or waiver from the RWQCB. The RWQCB evaluates an NPDES permit application to determine whether the proposed discharge is consistent with the adopted water quality objectives of the basin plan.

Waters of the United States, Clean Water Act, Section 404

The US Army Corps of Engineers (Corps) and the U.S. Environmental Protection Agency (EPA) regulate the discharge of dredged or fill material into jurisdictional waters of the United States, under the Clean Water Act (§404). The term “waters of the United States” is an encompassing term that includes “wetlands” and “other waters.” Wetlands have been defined for regulatory purposes as follows: “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (33 CFR 328.3, 40 CFR 230.3). Wetlands generally include swamps, marshes, bogs, and similar areas.” other waters of the United States are seasonal or perennial water bodies, including lakes, stream channels, drainages, ponds, and other surface water features, that exhibit an ordinary high-water mark but lack positive indicators for one or more of the three wetland parameters (i.e., hydrophytic vegetation, hydric soil, and wetland hydrology) (33 CFR 328.4).

The Corps may issue either individual permits on a case-by-case basis or general permits on a program level. General permits are pre-authorized and are issued to cover similar activities that are expected to cause only minimal adverse environmental effects. Nationwide permits are general permits issued to cover particular fill activities. All nationwide permits have general conditions that must be met for the permits to apply to a particular project, as well as specific conditions that apply to each nationwide permit.

State of California

California Endangered Species Act

The California Endangered Species Act (CESA) is similar to the ESA, but pertains to state-listed endangered and threatened species. The CESA requires state agencies to consult with the CDFW when preparing documents to comply with the California Environmental Quality Act (CEQA). The purpose is to ensure that the actions of the lead agency do not jeopardize the continued existence of a listed species or result in the destruction, or adverse modification of habitat essential to the continued existence of those species. In addition to formal listing under the federal and state endangered species acts, “species of special concern” receive consideration by CDFW. Species of special concern are those whose numbers, reproductive success, or habitat may be threatened.

California Fish and Game Code (§3503.5)

The CFGC (§3503.5) states that it is “unlawful to take, possess, or destroy any birds in the order Falconiformes (hawks, eagles, and falcons) or Strigiformes (all owls except barn owls) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.” Take includes the disturbance of an active nest resulting in the abandonment or loss of young. The CFGC (§3503) also states that “it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.”

California Migratory Bird Protection Act

The CMBPA amends the CFGC (§3513) to mirror the provisions of the MBTA and allow the State of California to enforce the prohibition of take or possession of any migratory nongame bird as designated in the federal MBTA, including incidental take.

Activities that involve the removal of vegetation including trees, shrubs, grasses, and forbs or ground disturbance have the potential to affect bird species protected by the MBTA and CFGC. Thus, vegetation removal and ground disturbance in areas with breeding birds should be conducted outside of the breeding season (approximately February 1 – August 31). If vegetation removal or ground-disturbing activities are conducted during the breeding season, then a qualified biologist must determine if there are any nests of bird species protected under the MBTA and CFGC present in the Project area prior to commencement of vegetation removal or ground-disturbing activities. If active nests are located or presumed present, then appropriate avoidance measures (e.g. spatial or temporal buffers) must be implemented.

Lake and Streambed Alteration Agreement, CFGC (§1602)

The CDFW is a trustee agency that has jurisdiction under the CFGC (§1600 et seq.). The CFGC (§1602), requires that a state or local government agency, public utility, or private entity must notify CDFW if a proposed Project will “substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated by the department, or use any material from the streambeds... except when the department has been notified pursuant to Section 1601.” If an existing fish or wildlife resource may be substantially adversely affected by the activity, CDFW may propose reasonable measures that will allow protection of those resources. If these measures are agreeable to the parties involved, they may enter into an agreement with CDFW identifying the approved activities and associated mitigation measures.

Rare and Endangered Plants

The CNPS maintains a list of plant species native to California with low population numbers, limited distribution, or otherwise threatened with extinction. This information is published in the Inventory of Rare and Endangered Vascular Plants of California. Potential impacts to populations of CNPS California Rare Plant Rank (CRPR) plants receive consideration under CEQA review. The CNPS CRPR categorizes plants as follows:

- Rank 1A: Plants presumed extinct in California;
- Rank 1B: Plants rare, threatened, or endangered in California or elsewhere;
- Rank 2A: Plants presumed extirpated or extinct in California, but not elsewhere;
- Rank 2B: Plants rare, threatened, or endangered in California, but more numerous elsewhere;
- Rank 3: Plants about which we need more information; and
- Rank 4: Plants of limited distribution.

The California Native Plant Protection Act (CFGC §1900-1913) prohibits the taking, possessing, or sale within the state of any plants with a state designation of rare, threatened, or endangered as defined by CDFW. An exception to this prohibition allows landowners, under specific circumstances, to take listed

plant species, provided that the owners first notify CDFW and give the agency at least 10 days to retrieve (and presumably replant) the plants before they are destroyed. Fish and Game Code §1913 exempts from the ‘take’ prohibition “the removal of endangered or rare native plants from a canal, lateral channel, building site, or road, or other right of way.”

California Environmental Quality Act Guidelines §15380

Although threatened and endangered species are protected by specific federal and state statutes, CEQA Guidelines §15380(d) provides that a species not listed on the federal or state list of protected species may be considered rare or endangered if the species can be shown to meet certain specified criteria. These criteria have been modeled based on the definition in the ESA and the section of the CFGC dealing with rare, threatened, and endangered plants and animals. The CEQA Guidelines (§15380) allows a public agency to undertake a review to determine if a significant effect on species that have not yet been listed by either the USFWS or CDFW (e.g. candidate species, species of concern) would occur. Thus, CEQA provides an agency with the ability to protect a species from a project’s potential impacts until the respective government agencies have an opportunity to designate the species as protected, if warranted.

CONCLUSIONS AND RECOMMENDATIONS

Endangered, Threatened, and Rare Plants

There are no special-status botanical species present within the BSA and no suitable habitat for special-status botanical species was identified within the BSA; therefore, there will be no effects to botanical species and no avoidance and minimization measures are proposed.

Endangered, Threatened, and Special-status Wildlife

The following are the recommended minimization and mitigation measures to further reduce or eliminate Project-associated impacts to special-status wildlife species. These proposed measures may be amended or superseded by the Project-specific permits issued by the regulatory agencies.

Western Spadefoot Toad

Due to the low potential for western spadefoot toads to occur in the seasonal riverine habitat within the BSA, if their breeding habitat will be impacted by the Project a protocol-level survey conducted by a qualified biologist for this species is recommended to determine their presence/absence. If western spadefoot toads are determined to be present, consultation with the CDFW will be required.

Migratory Birds and Raptors

To avoid impacts to avian species protected under the MBTA and the CFGC the following are recommended avoidance and minimization measures for migratory birds and raptors:

- Project activities including site grubbing and vegetation removal shall be initiated outside of the bird nesting season (February 1 – August 31).
- If Project activities cannot be initiated outside of the bird nesting season, then the following will occur:

- A qualified biologist will conduct a pre-construction survey within 250 feet of the BSA, where accessible, within 7 days prior to the start of Project activities.
- If an active nest (i.e. containing egg[s] or young) is observed within the BSA or in an area adjacent to the BSA where impacts could occur, then a species protection buffer will be established. The species protection buffer will be defined by the qualified biologist based on the species, nest type and tolerance to disturbance. Construction activity shall be prohibited within the buffer zones until the young have fledged or the nest fails as determined by a qualified biologist. Nests shall be monitored by a qualified biologist once per week and a report submitted to the CEQA lead agency weekly.

Other Natural Resources

Waters of the United States

Gallaway Enterprises mapped one potentially jurisdictional feature within the BSA. Impacts to this feature may require a permit from the Corps and a CWA section 401 water quality certification from the Central Valley RWQCB. The Corps provides final determination by issuance of a jurisdictional determination on the location, extent and type of jurisdictional waters. We recommend that these features be avoided until after a formal delineation of waters of the U.S. is made, and if needed, permits from the Corps and Central Valley RWQCB are obtained.

Additionally, Gallaway Enterprises recommends a physical barrier such as orange environmentally sensitive area (ESA) fencing or silt fence be installed between the riverine habitat and areas of active construction to ensure avoidance is maintained.

Tree Removal

If any healthy, living trees greater than 31 inches in diameter measured at breast height (dbh) within the BSA are proposed to be removed, tree removal may be subject to the Town of Paradise's municipal code chapter 8.12 (Felling, Removal, Destruction, Damaging and Replacement of Trees) and may require permitting and mitigation. If hazardous trees within the BSA are proposed to be removed, they may be subject to Paradise municipal code chapters 8.59 (Removal of Fire Damaged Debris from Private Property Following the Camp Fire) and/or 8.63 (Mandatory Government Hazard Tree Removal Program).

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LIST OF PREPARERS

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Cate Reid. GIS Analyst and Cultural Resource Specialist. M.A. in Anthropology with a specialization in GIS applications and land use studies, California State University, Chico. Mrs. Reid has over 5 years of experience working with GIS while incorporating surveying applications, analysis of datasets, and collection of field data in order to create professional quality graphics and reports.

Appendix A

Species Lists



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

January 29, 2020

Consultation Code: 08ESMF00-2020-SLI-0894

Event Code: 08ESMF00-2020-E-02847

Project Name: Skyway Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2020-SLI-0894

Event Code: 08ESMF00-2020-E-02847

Project Name: Skyway Project

Project Type: FORESTRY

Project Description: It is proposed that this area be used to pile logs and log related material.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/39.74269402400006N121.64979399986001W>



Counties: Butte, CA

Endangered Species Act Species

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Reptiles

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850 Habitat assessment guidelines: https://ecos.fws.gov/ipac/guideline/assessment/population/436/office/11420.pdf	Threatened

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Greene's Tuctoria <i>Tuctoria greenei</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1573	Endangered
Hairy Orcutt Grass <i>Orcuttia pilosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2262	Endangered
Hoover's Spurge <i>Chamaesyce hooveri</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3019	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

*The database used to provide updates to the Online Inventory is under construction. [View updates and changes made since May 2019 here.](#)

Plant List

46 matches found. [Click on scientific name for details](#)

Search Criteria

Found in Quads 3912166, 3912176 3912175 and 3912165;

[Modify Search Criteria](#)
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Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Listing Status	Federal Listing Status	Lowest Elevation	Highest Elevation
Allium jepsonii	Jepson's onion	Alliaceae	perennial bulbiferous herb	Apr-Aug	1B.2			300 m	1320 m
Allium sanbornii var. sanbornii	Sanborn's onion	Alliaceae	perennial bulbiferous herb	May-Sep	4.2			260 m	1510 m
Arctostaphylos mewukka ssp. truei	True's manzanita	Ericaceae	perennial evergreen shrub	Feb-Jul	4.2			425 m	1390 m
Astragalus pauperculus	depauperate milk-vetch	Fabaceae	annual herb	Mar-Jun	4.3			60 m	1215 m
Brodiaea rosea ssp. vallicola	valley brodiaea	Themidaceae	perennial bulbiferous herb	Apr-May(Jun)	4.2			10 m	335 m
Brodiaea sierrae	Sierra foothills brodiaea	Themidaceae	perennial bulbiferous herb	May-Aug	4.3			50 m	980 m
Bulbostylis capillaris	thread-leaved beakseed	Cyperaceae	annual herb	Jun-Aug	4.2			395 m	2075 m
Calycadenia oppositifolia	Butte County calycadenia	Asteraceae	annual herb	Apr-Jul	4.2			90 m	945 m
Calystegia atriplicifolia ssp. buttensis	Butte County morning-glory	Convolvulaceae	perennial rhizomatous herb	May-Jul	4.2			565 m	152

<u>Cardamine pachystigma var. dissectifolia</u>	dissected-leaved toothwort	Brassicaceae	perennial rhizomatous herb	Feb-May	1B.2		255 m	2100 m
<u>Carex xerophila</u>	chaparral sedge	Cyperaceae	perennial herb	Mar-Jun	1B.2		440 m	770 m
<u>Castilleja rubicundula var. rubicundula</u>	pink creamsacs	Orobanchaceae	annual herb (hemiparasitic)	Apr-Jun	1B.2		20 m	910 m
<u>Clarkia gracilis ssp. albicaulis</u>	white-stemmed clarkia	Onagraceae	annual herb	May-Jul	1B.2		245 m	1085 m
<u>Clarkia mildrediae ssp. lutescens</u>	golden-anthered clarkia	Onagraceae	annual herb	Jun-Aug	4.2		275 m	1750 m
<u>Clarkia mildrediae ssp. mildrediae</u>	Mildred's clarkia	Onagraceae	annual herb	May-Aug	1B.3		245 m	1710 m
<u>Clarkia mosquinii</u>	Mosquin's clarkia	Onagraceae	annual herb	May-Jul(Sep)	1B.1		185 m	1490 m
<u>Claytonia palustris</u>	marsh claytonia	Montiaceae	perennial herb	May-Oct	4.3		1000 m	2500 m
<u>Claytonia parviflora ssp. grandiflora</u>	streambank spring beauty	Montiaceae	annual herb	Feb-May	4.2		250 m	1200 m
<u>Cypripedium fasciculatum</u>	clustered lady's-slipper	Orchidaceae	perennial rhizomatous herb	Mar-Aug	4.2		100 m	2435 m
<u>Erigeron petrophilus var. sierrensis</u>	northern Sierra daisy	Asteraceae	perennial rhizomatous herb	Jun-Oct	4.3		300 m	2073 m
<u>Eriogonum umbellatum var. ahartii</u>	Ahart's buckwheat	Polygonaceae	perennial herb	Jun-Sep	1B.2		400 m	2000 m
<u>Erythranthe glaucescens</u>	shield-bracted monkeyflower	Phrymaceae	annual herb	Feb-Aug(Sep)	4.3		60 m	1240 m
<u>Erythranthe inconspicua</u>	small-flowered monkeyflower	Phrymaceae	annual herb	May-Jun	4.3		274 m	760 m
<u>Euphorbia hooveri</u>	Hoover's spurge	Euphorbiaceae	annual herb	Jul-Sep(Oct)	1B.2	FT	25 m	250 m
<u>Frangula purshiana ssp. ultramafica</u>	Caribou coffeeberry	Rhamnaceae	perennial deciduous shrub	May-Jul	1B.2		825 m	1930 m
<u>Fritillaria eastwoodiae</u>	Butte County fritillary	Liliaceae	perennial bulbiferous herb	Mar-Jun	3.2		50 m	1500 m
<u>Fritillaria pluriflora</u>	adobe-lily	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2		60 m	705 m
<u>Githopsis pulchella ssp. serpentinicola</u>	serpentine bluecup	Campanulaceae	annual herb	May-Jun	4.3		320 m	610 m
<u>Hibiscus lasiocarpus var. occidentalis</u>	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	1B.2		0 m	1200 m

Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	2B.1			0 m	1215 m
Juncus leiospermus var. leiospermus	Red Bluff dwarf rush	Juncaceae	annual herb	Mar-Jun	1B.1			35 m	1250 m
Layia septentrionalis	Colusa layia	Asteraceae	annual herb	Apr-May	1B.2			100 m	1095 m
Lilium humboldtii ssp. humboldtii	Humboldt lily	Liliaceae	perennial bulbiferous herb	May-Jul(Aug)	4.2			90 m	1280 m
Monardella venosa	veiny monardella	Lamiaceae	annual herb	May,Jul	1B.1			60 m	410 m
Navarretia heterandra	Tehama navarretia	Polemoniaceae	annual herb	Apr-Jun	4.3			30 m	1010 m
Navarretia nigelliformis ssp. nigelliformis	adobe navarretia	Polemoniaceae	annual herb	Apr-Jun	4.2			100 m	1000 m
Orcuttia pilosa	hairy Orcutt grass	Poaceae	annual herb	May-Sep	1B.1	CE	FE	46 m	200 m
Packera eurycephala var. lewisrosei	Lewis Rose's ragwort	Asteraceae	perennial herb	Mar-Jul(Aug-Sep)	1B.2			274 m	1890 m
Polygonum bidwelliae	Bidwell's knotweed	Polygonaceae	annual herb	Apr-Jul	4.3			60 m	1200 m
Rhynchospora californica	California beaked-rush	Cyperaceae	perennial rhizomatous herb	May-Jul	1B.1			45 m	1010 m
Rhynchospora capitellata	brownish beaked-rush	Cyperaceae	perennial herb	Jul-Aug	2B.2			45 m	2000 m
Sidalcea gigantea	giant checkerbloom	Malvaceae	perennial rhizomatous herb	(Jan-Jun)Jul-Oct	4.3			670 m	1950 m
Sidalcea robusta	Butte County checkerbloom	Malvaceae	perennial rhizomatous herb	Apr,Jun	1B.2			90 m	1600 m
Streptanthus drepanoides	sickle-fruit jewelflower	Brassicaceae	annual herb	Apr-Jun	4.3			275 m	1660 m
Streptanthus longisiliquus	long-fruit jewelflower	Brassicaceae	perennial herb	Apr-Sep	4.3			715 m	1500 m
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	1B.1	CR	FE	30 m	1070 m

Suggested Citation

California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 30 January 2020].

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Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad> IS (Hamlin Canyon (3912166)> OR Cherokee (3912165)> OR Paradise East (3912175)> OR Paradise West (3912176))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Ahart's buckwheat <i>Eriogonum umbellatum</i> var. <i>ahartii</i>	PDPGN086UY	None	None	G5T3	S3	1B.2
American peregrine falcon <i>Falco peregrinus anatum</i>	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
bald eagle <i>Haliaeetus leucocephalus</i>	ABNKC10010	Delisted	Endangered	G5	S3	FP
brownish beaked-rush <i>Rhynchospora capitellata</i>	PMCYP0N080	None	None	G5	S1	2B.2
Butte County checkerbloom <i>Sidalcea robusta</i>	PDMAL110P0	None	None	G2	S2	1B.2
Butte County fritillary <i>Fritillaria eastwoodiae</i>	PMLIL0V060	None	None	G3Q	S3	3.2
Butte County morning-glory <i>Calystegia atriplicifolia</i> ssp. <i>buttensis</i>	PDCON04012	None	None	G5T3	S3	4.2
California beaked-rush <i>Rhynchospora californica</i>	PMCYP0N060	None	None	G1	S1	1B.1
California black rail <i>Laterallus jamaicensis coturniculus</i>	ABNME03041	None	Threatened	G3G4T1	S1	FP
California satintail <i>Imperata brevifolia</i>	PMPOA3D020	None	None	G4	S3	2B.1
Caribou coffeeberry <i>Frangula purshiana</i> ssp. <i>ultramafica</i>	PDRHA0H061	None	None	G4T2T3	S2S3	1B.2
chaparral sedge <i>Carex xerophila</i>	PMCYP03M60	None	None	G2	S2	1B.2
chinook salmon - Central Valley spring-run ESU <i>Oncorhynchus tshawytscha</i> pop. 6	AFCHA0205A	Threatened	Threatened	G5	S1	
closed-throated beardtongue <i>Penstemon personatus</i>	PDSCR1L4Y0	None	None	G2	S2	1B.2
coast horned lizard <i>Phrynosoma blainvillii</i>	ARACF12100	None	None	G3G4	S3S4	SSC
Colusa layia <i>Layia septentrionalis</i>	PDAST5N0F0	None	None	G2	S2	1B.2
dissected-leaved toothwort <i>Cardamine pachystigma</i> var. <i>dissectifolia</i>	PDBRA0K1B1	None	None	G3G5T2Q	S2	1B.2
foothill yellow-legged frog <i>Rana boylei</i>	AAABH01050	None	Candidate Threatened	G3	S3	SSC
Great Valley Cottonwood Riparian Forest <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA	None	None	G2	S2.1	



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Greene's tuctoria <i>Tuctoria greenei</i>	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
Hoover's spurge <i>Euphorbia hooveri</i>	PDEUP0D150	Threatened	None	G1	S1	1B.2
Jepson's onion <i>Allium jepsonii</i>	PMLIL022V0	None	None	G2	S2	1B.2
Lewis Rose's ragwort <i>Packera eurycephala</i> var. <i>lewisrosei</i>	PDAST8H182	None	None	G4T2	S2	1B.2
Mildred's clarkia <i>Clarkia mildrediae</i> ssp. <i>mildrediae</i>	PDONA050Q2	None	None	G3T2T3	S2S3	1B.3
Mosquin's clarkia <i>Clarkia mosquinii</i>	PDONA050S0	None	None	G2	S2	1B.1
North American porcupine <i>Erethizon dorsatum</i>	AMAFJ01010	None	None	G5	S3	
Northern Basalt Flow Vernal Pool <i>Northern Basalt Flow Vernal Pool</i>	CTT44131CA	None	None	G3	S2.2	
Northern Hardpan Vernal Pool <i>Northern Hardpan Vernal Pool</i>	CTT44110CA	None	None	G3	S3.1	
pink creamsacs <i>Castilleja rubicundula</i> var. <i>rubicundula</i>	PDSCR0D482	None	None	G5T2	S2	1B.2
Red Bluff dwarf rush <i>Juncus leiospermus</i> var. <i>leiospermus</i>	PMJUN011L2	None	None	G2T2	S2	1B.1
silver-haired bat <i>Lasionycteris noctivagans</i>	AMACC02010	None	None	G5	S3S4	
steelhead - Central Valley DPS <i>Oncorhynchus mykiss irideus</i> pop. 11	AFCHA0209K	Threatened	None	G5T2Q	S2	
tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
veiny monardella <i>Monardella venosa</i>	PDLAM18082	None	None	G1	S1	1B.1
vernal pool tadpole shrimp <i>Lepidurus packardi</i>	ICBRA10010	Endangered	None	G4	S3S4	
western pond turtle <i>Emys marmorata</i>	ARAAD02030	None	None	G3G4	S3	SSC
western spadefoot <i>Spea hammondi</i>	AAABF02020	None	None	G3	S3	SSC
white-stemmed clarkia <i>Clarkia gracilis</i> ssp. <i>albicaulis</i>	PDONA050J1	None	None	G5T3	S3	1B.2
woolly rose-mallow <i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	PDMAL0H0R3	None	None	G5T3	S3	1B.2
Yuma myotis <i>Myotis yumanensis</i>	AMACC01020	None	None	G5	S4	

Record Count: 19

197

Appendix B

Observed Plant and Wildlife Species List

Plant Species Observed within the BSA January 29, 2020

Scientific Name	Common Name
<i>Arctostaphylos manzanita ssp. manzanita</i>	Big manzanita
<i>Arctostaphylos viscida</i>	White-leaved manzanita
<i>Avena sp.</i>	Wild oats
<i>Briza maxima</i>	Greater quaking-grass
<i>Bromus diandrus</i>	Rip-gut brome
<i>Bromus hordeaceus</i>	Soft chess
<i>Bromus madritensis ssp. rubens</i>	Red brome
<i>Calystegia occidentalis ssp. occidentalis</i>	Western morning glory
<i>Ceanothus cuneatus var. cuneatus</i>	Buck brush
<i>Centaurea solstitialis</i>	Yellow star thistle
<i>Cercis occidentalis</i>	Western redbud
<i>Claytonia perfoliata</i>	Miner's lettuce
<i>Croton setiger</i>	Turkey-mullein
<i>Crucianella angustifolia</i>	Crosswort
<i>Cynosurus echinatus</i>	Hedgehog dogtail
<i>Cyperus eragrostis</i>	Tall nutsedge
<i>Cytisus scoparius</i>	Scotch broom
<i>Elymus glaucus</i>	Blue wildrye
<i>Epilobium sp.</i>	Willowherb
<i>Erigeron bonariensis</i>	South American horseweed
<i>Eriodictyon californicum</i>	Yerba santa
<i>Eriophyllum lanatum var. grandiflorum</i>	Large-flowered woolly sunflower
<i>Erodium botrys</i>	Long-beaked stork's-bill
<i>Erodium cicutarium</i>	Cut-leaf filaree
<i>Festuca bromoides</i>	Six-weeks fescue
<i>Festuca perennis</i>	Rye-grass
<i>Galium parisiense</i>	Wall bedstraw
<i>Gastridium phleoides</i>	Nitgrass
<i>Geranium dissectum</i>	Cut-leaved geranium
<i>Heliotropium europaeum</i>	European heliotrope
<i>Heteromeles arbutifolia</i>	Toyon
<i>Hordeum marinum ssp. gussoneanum</i>	Mediterranean barley
<i>Hypericum perforatum</i>	Klamathweed
<i>Hypochaeris glabra</i>	Smooth cat's ear
<i>Juncus effusus</i>	Pacific rush
<i>Kickxia elatine</i>	Sharp-leaved fluellin
<i>Lactuca serriola</i>	Prickly lettuce
<i>Leontodon saxatilis</i>	Hawkbit
<i>Lepechinia calycina</i>	California pitcher-sage
<i>Lonicera interrupta</i>	Chaparral honeysuckle
<i>Malva sp.</i>	Bull mallow
<i>Pinus ponderosa</i>	Ponderosa pine
<i>Pinus sabiniana</i>	Gray pine/Foothill pine

Scientific Name	Common Name
<i>Plantago lanceolata</i>	English plantain
<i>Poa annua</i>	Annual bluegrass
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Polypogon monspeliensis</i>	Rabbitsfoot grass
<i>Pseudognaphalium luteoalbum</i>	Weedy cudweed
<i>Quercus berberidifolia</i>	Scrub oak
<i>Quercus kelloggii</i>	California black oak
<i>Quercus wislizeni</i>	Live oak
<i>Rorippa sp.</i>	Watercress
<i>Rubus armeniacus</i>	Himalayan blackberry
<i>Rumex crispus</i>	Curly dock
<i>Salix gooddingii</i>	Goodding's black willow
<i>Salix lasiolepis</i>	Arroyo willow
<i>Sambucus nigra ssp. caerulea</i>	Blue elderberry
<i>Sherardia arvensis</i>	Field-madder
<i>Silybum marianum</i>	Milk thistle
<i>Sisymbrium officinale</i>	Hedge mustard
<i>Solanum americanum</i>	Common nightshade
<i>Solidago velutina ssp. californica</i>	California goldenrod
<i>Sonchus asper</i>	Sow thistle
<i>Sorghum halepense</i>	Johnsongrass
<i>Stellaria media</i>	Common chickweed
<i>Taraxacum officinale</i>	Dandelion
<i>Torilis arvensis</i>	Hedge parsley
<i>Toxicodendron diversilobum</i>	Poison oak
<i>Tragopogon dubius</i>	Yellow salsify
<i>Trifolium sp.</i>	Clover
<i>Trifolium hirtum</i>	Rose clover
<i>Trifolium willdenovii</i>	Wildcat clover
<i>Umbellularia californica</i>	California bay laurel
<i>Verbascum blattaria</i>	Moth mullein
<i>Verbascum thapsus</i>	Woolly mullein
<i>Vicia villosa</i>	Winter vetch

Wildlife Species Observed within the BSA January 29, 2020	
Scientific Name	Common Name
<i>Corvus brachyrhynchos</i>	American Crow
<i>Cathartes aura</i>	Turkey Vulture
<i>Selasphorus rufus</i>	Rufus Hummingbird
<i>Melospiza melodia</i>	Song Sparrow
<i>Zonotrichia leucophrys</i>	White-Crowned Sparrow
<i>Vireo huttoni</i>	Hutton's Verio
<i>Callipepla californica</i>	California Quail
<i>Setophaga coronata</i>	Yellow-rumped Warbler
<i>Junco hyemalis</i>	Dark-eyed Junco

Scientific Name	Common Name
<i>Zenaida macroura</i>	Mourning Dove
<i>Pseudacris regilla</i>	Pacific Tree Frog

*Deer scat observed within BSA.

Appendix C

Project Site Photos Taken January 29, 2020



Overview of the BSA facing west. The barren and disturbed annual grass habitats can be seen.



Overview of the BSA. Taken at eastern boundary facing west.



Overview of the BSA. Taken at western boundary facing east.



Taken at the southern boundary facing north, in the middle of the BSA.



Ponded area within the seasonal riverine habitat in the eastern section of the BSA.



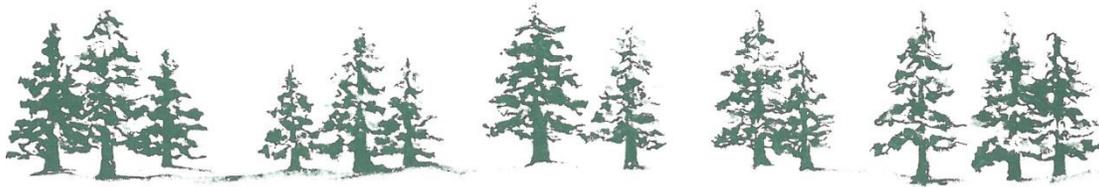
Overview of the seasonal riverine habitat in the eastern section of the BSA.



Overview of the smaller parcel on the northside of the eastern bound Skyway Road. Taken at southern boundry, facing north.



Overview of the smaller parcel on the northside of the eastern bound Skyway Road. Taken at southern boundry, facing northwest.



TOWN OF PARADISE

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TELEPHONE (530) 872-6291 FAX (530) 877-5059

www.townofparadise.com

April 29, 2020

TEMPORARY USE PERMIT

Anderson Brothers Corporation
Attn: David Anderson
P.O. Box 535
Paradise, CA 95967

Subject: Anderson Log Storage & Processing Yard Temporary Use Permit (PL19-00383);
AP No. 051-230-047, 054, 055 & 051-240-011 & 012

Dear Mr. Anderson:

Pursuant to Paradise Municipal Code Chapter 17.32 [Temporary Use Regulations] and the provisions of Section 8 of Town Urgency Ordinance #590 relating to the removal of fire damaged debris from private property following the Camp Fire, your application for an temporary use permit to allow a **“Log Storage & Processing Yard”** land use on properties located adjoining and primarily due south of 4716 thru 4724 Skyway **is hereby authorized**, based on and subject to the following findings and conditions:

I. FINDINGS

- A. The proposed project is statutorily exempt from environmental review pursuant to Public Resources Code Section 21080(b)(3) and Section 15269 (Emergency Project) of the California Environmental Quality Act. Guidelines.
- B. Find that the project, as conditioned, complies with all applicable regulations found within Urgency Ordinance #590, Section 8, relating to Temporary Log Storage Yards.
- C. As conditioned, the temporary use will not be detrimental to the health, safety, and general welfare of the residents of the Town of Paradise.

II. **GENERAL REQUIREMENTS; CONDITIONS AND RESTRICTIONS:**

- 1. Failure to comply with the conditions specified herein as the basis for approval of application and issuance of this temporary use permit constitutes cause for the revocation of said permit in accordance with the provisions set forth in Paradise Municipal Code Chapter 17.32.

Municipal Code (PMC) Section 17.32.600 [Revocation of Temporary Use Permit].

2. Acceptance and processing of logs and wood waste originating from the Government Hazard Tree Removal Program **is prohibited**.
3. Unless otherwise provided for in a special condition to this Permit, all conditions must be completed **prior to** the establishment of the granted land use.
4. The temporary use permit shall expire **December 31, 2020**, or until such date as stated in Urgency Ordinance #590, if extended by the Town Council.
5. Neither the applicant, nor any agent nor representative of the applicant shall intentionally omit or misrepresent any material fact in connection with the application. Any alleged material misrepresentation shall constitute grounds for the Community Development/Planning Director to commence a revocation meeting, and, if proven to exist, shall constitute grounds to revoke the Temporary Use Permit.
6. The authorized temporary land use shall be confined to be maintained and conducted upon the affected project properties in a manner consistent with the project submittal materials and revised site plan map received on February 6, 2020 and on file with the Town Department of Development Services. Minor changes to the plans may be allowed subject to written approval of the Community Development Director only if found to be in substantial conformance to the approved project.
7. If the temporary land use is to be using PID water, then the applicant must apply for and pay for a PID construction meter.
8. The property owner(s) shall be required to establish and sustain waste collection services for the project properties provided by **NRWS** during the Temporary Log Storage & Processing Yard land use.
9. The applicant shall construct and operate this project in strict compliance with the approvals granted herein, Town standards, local ordinances, and in compliance with all State and Federal laws, regulations, and standards. In the event of a conflict between Town laws and standards and a State or Federal law, regulation, or standard, the stricter or higher standard shall control.
10. The project site properties occupied by the temporary land use shall be left free of debris, litter or other evidence of temporary use upon completion or removal of the temporary Log Storage & Processing Yard.
11. The property owner(s) shall defend, indemnify and hold harmless the Town of Paradise from any liability or court costs relating to any claim or action brought within 90 days after the approval of this permit to attack or challenge the approval of Log Storage & Processing Yard Temporary Use Permit [PL19-00383].

III. TEMPORARY LAND USE CONDITIONS OF APPROVAL:

1. **Allowed Uses.** Temporary Log Storage & Processing Yards allow for the storage and processing of logs and vegetation but not burning of logs and vegetation, and may include associated equipment repair, construction trailers, employee parking and portable bathroom facilities and/or transitory shelter set up for use by the personnel assigned to the yard, but not residences.
2. Logs and wood waste originating from routine utility line maintenance shall **not be stored** at this specific Temporary Log Storage Yard.
3. **Storage or Processing of Fire Debris Prohibited.** The storage or processing of debris from the **Camp Fire Consolidated Debris Removal Program** at this Temporary Log Storage Yard, including the storage of trucks or equipment loaded with debris, **shall be expressly prohibited.**
4. **Noise.** Quiet hours shall be maintained between 7 p.m. to 7 a.m. seven days a week. During quiet hours, generators and heavy equipment shall not be operated, and noise levels shall conform to Paradise Municipal Code Chapter 9.18 [Noise Control]. Outside of quiet hours, noise sources associated with temporary log storage yards shall be exempt from the requirements of PMC Chapter 9.18.
5. **Siting Criteria.** To the extent practicable, temporary log storage yards shall be located on flat areas of the project site that are already disturbed and in such a manner to decrease impacts to uses of surrounding properties.
6. **Approved Access.** This temporary log storage & processing yard shall have access onto Skyway, a public road. Project site access approach shall be made in accordance with and to the satisfaction of the Town Engineer.
7. Any truck movements entering or exiting the project site that creates a traffic hazard shall be corrected to the satisfaction of and in a manner deemed acceptable to the Town Engineer and the Police Chief.
8. **On-site Roads, Driveways and Aisles.** This temporary log storage & processing yard shall have on-site roads, driveways and aisles that shall have a 6-inch Class 2 aggregate base, a minimum width of 25 feet, and shall be capable of supporting a 75,000 lb. load that will allow for ingress and egress of fire apparatus to within 150 feet of all piles and structures, and shall have a vertical clearance of not less than 15 feet.
9. **Biological Resources.** Temporary log storage yards are not to be located on lands containing wetlands, and/or endangered and protected plants and animal species. A current biological resource assessment report has been submitted to the Town Department of Development Services demonstrating that no special-status botanical species are present within the project site properties. **The report identified potential project associated impacts to special-status wildlife species and a potential jurisdictional wetland feature that are recommended to be assigned minimization and mitigation measures that**

Town of Paradise hereby requires to be implemented by the project applicant.

10. **Outdoor Lighting.** The project applicant proposes to provide portable site lighting at active ingress and egress locations of the site. All outdoor lighting shall be located, adequately shielded, and directed such that no direct light falls outside the property lines, or into the public right-of-way in accordance with Paradise Municipal Code Section 17.06.810 [Lighting Fixtures].
11. **Property Line Setbacks and Defensible Space.** All log piles and other piles shall be setback a minimum of 150 feet from all outside property lines and any permanent structures. There shall be an area of defensible space that is a minimum of 150 feet wide around the perimeter of the temporary log storage area that shall not be graded but shall be kept clear of grass and vegetation to support fire protection by clearing, disking, grubbing, and/or scraping. **CAL-FIRE** shall have discretion to address unique circumstances.
12. **Paradise Fire Department/CAL-FIRE Standards.** This temporary land use shall adhere to and comply with all applicable Paradise Fire Department/CAL-FIRE standards. State standards set out in California Fire Code Chapter 28 with respect to log storage yards and incidental wood products stored at the project site shall apply.
13. The project's submitted "**Material Handling & Fire Prevention Plan**" shall be established and implemented satisfactory to the Town of Paradise Fire Department/CAL-FIRE.
14. CAL-FIRE requires a portable pump capable of pumping 50 gallons per minute and a minimum of 250 gallons of water on site for fire suppression. A water tender with a minimum 250-gallon capacity may suffice for this requirement [Public Resources Code, Section 4430].
15. Per California Public Resource Code, Section 4428, the project site shall have a sealed box of tools that shall be located, within the operating area, at a point accessible in the event of a fire. This fire toolbox shall contain: one backpack pump-type fire extinguisher filled with water, two axes, two McLeod fire tools and an appropriate number of shovels so that each employee at the operation can be equipped to fight fire. In addition, one or more serviceable chainsaws of three and one-half or more horsepower with a cutting bar 20 inches in length or longer shall be immediately available within the operating area.
 - a. Whenever a fire starts, a telephone call shall be made to 911 immediately to inform that there is a fire. The facility operator shall develop a plan for monitoring, controlling, and extinguishing fires. The plan shall be submitted with the temporary use permit application for review and approval by fire officials.
 - b. Smoking may only occur in designated locations shown on the project site plan.
 - c. Log piles shall not exceed 20 feet in height, 300 feet in width, and 500 feet in length. Log piles shall be stabilized by a means approved by the Fire Chief or his/her designee.
 - d. Other piles made of incidental log related materials shall not exceed 20 feet in height; 150 feet in width, and 250 feet in length.
 - e. All piles shall be separated from all other piles by 100 feet and shall include on-site roads, driveways, and aisles as previously discussed.
 - f. All piles shall be monitored by a means approved by the Fire Chief to meas

- temperatures. Internal pile temperatures shall be monitored and recorded weekly. A plan by the permittee for restricting and mitigating excessive temperatures shall be submitted with the temporary use permit application for review and approval by fire officials.
- g. Regular inspections of the temporary log storage yard by trained fire personnel shall be allowed and facilitated by the facility operator.
 - h. Cutting activities shall comply with California Fire Code Chapter 35.
16. **Butte County Public Health, Environmental Health Division.** The project description indicates temperatures of chips will be taken using a digital or analog temperature probe, and that temperatures will be recorded into a database record. All records need to be kept on-site so to be available to the Local Enforcement Agency [LEA] during site inspections.
17. Project description indicates that all chips produced will be hauled off to a cogeneration plant. **[Note: Any chips that will be land applied must be lab tested for pathogens, heavy metals and physical contaminants.]**
18. Project operator shall handle and maintain slash & chip piles at an internal temperature of less than 122F and shall be monitored. Temperatures of green material piles are to be taken at least once a week, or more often as needed. If the pile temperature exceeds 122F, then Operator shall apply effective measures to reduce heat.
19. Project description indicates that there will be minimal chip storage on-site. Each load of green material must be removed from the chip & grind site within seven (7) days of receipt. In addition, the project operation shall be conducted to minimize odors, dust and litter migrating off the site.
20. Butte County Environmental Health may conduct site inspections at any time to determine compliance with applicable standards, or in response to a complaint. [NOTE: Failure to maintain the green material and chip pile maximum core temperature of 122F will result in enforcement action by Butte County Environmental Health.
21. In the event the site fails to meet the allowable chip storage time or the maximum temperature limits for a Chipping & Grinding operation it will be regarded as a compostable material handling (composting) facility and all pertinent regulations will apply.
22. For sanitation purposes there shall be a minimum of one portable toilet and one handwash station at the facility for employee use. The portable toilet shall be routinely serviced by a licensed service provider.
23. The storage of any hazardous material at or above State-defined thresholds shall require the approval of a Hazardous Material Business Plan by the Butte County Department of Public Health, Environmental Health Division.
24. For water that is provided for human consumption, from an on-site source or transported to the facility and held in a storage tank, the facility operator shall meet the following requirements: a) if 25 or more people per day are consuming the water, the facility operator shall contact the Butte County Environmental Health Division for public system permitting

requirements and shall operate in accordance with those requirements; b) if there are fewer than 25 people/day consuming the water, the facility shall have the water tested for and be in compliance with minimum bacteriological standards of the Butte County Environmental Health Division. If bottled water is provided, there is no requirements for testing.

25. **Air Quality and Dust Control.** Per the Butte County Air Quality Management District, the proposed project shall be subject to District Rule 205—Fugitive Dust Emissions/ Requirements that shall include, but not be limited to: a) Reduce the amount of disturbed area where possible. Stabilize disturbed area soils during use and at project completion, b) Apply water or stabilizing agent with necessary quantities to prevent the generation of visible dust plumes. c) Limit vehicle speeds to 15 miles per hour on any unpaved surfaces at the project site. d) Clean visible track-out onto adjacent paved roadways daily. Track-out shall not extend more than 25 feet in cumulative length from the active project site. and e) Post a sign in a prominent location visible to the public with the telephone number of the contractor and Air District for any questions or concerns about dust from the project.
26. Portable equipment and engines (rated at 50 HP or greater) may operate at the location for up to 12 consecutive months in each of two potential consecutive years. Authorization may be by registration in the State Portable Equipment Registration Program (PERP) or the Butte County Air Quality Management District or, if under the Emergency Declaration, by filing a Form 40 with the State PERP. Operation beyond 12 months and stationary sources require an air quality permit from the District.
27. **Perimeter Stormwater Control.** The temporary log storage yard must be designed, prepared and operated with project improvements that adhere to and comply with perimeter stormwater control standards of the Town Public Works Department and the State Water Quality Control Board such that water accumulating within the project will be carried away from the project without injury to any adjacent improvement, residential sites, and /or adjoining areas.
28. **Water Quality and Erosion Control.** This temporary land use shall be established and operated in accordance with its Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer along with submittal of a Notice of Intent to obtain coverage under the General Permit Order 2009-0009-DWQ as amended. The project applicant shall adhere to and comply with all applicable water quality and erosion control standards of the Town Public Works Department and the State Water Quality Control Board.
29. **Electricity and Electrical Equipment.** If any new electricity connections are to be brought to the project site, a building permit shall be required. Electrical wiring and equipment shall comply with the Town adopted California Electrical Code.
30. **Building Permit(s).** The applicant shall obtain all necessary building permits from the Town Building Division for any proposed structures to be constructed at the project site. The applicant shall submit building plans and specifications prepared by a California registered design professional (engineer or architect) demonstrating compliance with the current Town adopted California Code requirements.

31. **Project Site Reclamation/Restoration.** There shall be no grading of the project site **without the prior approval of the Town Engineer**, but if grading is allowed, topsoil shall be conserved to be used for project site reclamation. At minimum, the project submitted and Town approved Reclamation/Restoration Plan shall include: a) Clearance of the site of all vehicles, equipment and materials utilized as part of the Temporary Log Storage Yard; and b) Stabilization of the site, implementation of erosion control measures, and successful revegetation to the satisfaction of the Community Development Director in order to render the affected project properties suitable for the land use(s) for which zoned.
32. **Performance Guarantee.** Prior to establishment and operation of the Temporary Log Storage Yard the project applicant shall submit to the Town of Paradise a **“project performance guarantee”** in the amount of **\$2,000/acre of land disturbed** pursuant to Paradise Municipal Code Section 17.32.400 in order to guarantee the proper completion of any approved work and to ensure that site reclamation is completed to the satisfaction of the Community Development Director.
33. Project site lands shall be restored and/or reclaimed to the satisfaction of the Community Development Director **prior to release of the performance guarantee.**
34. **Additional Requirements.** The temporary use permit may be subject to additional requirements from the Butte County Air Quality Management District, the Butte County Public Health Department, CAL-FIRE, the State Regional Water Quality Control Board, and the Town Public Works Department.
35. **Violations, Enforcement, and Penalties.** Approved operations of this Temporary Log Storage Yard shall be managed and monitored to ensure that activities do not constitute a public nuisance, as defined in State and local law. A temporary log storage yard that is operating in violation of the Paradise Municipal Code, and the conditions of this permit, poses a health and safety hazard and is found to be a public nuisance.
36. The Community Development Director may initiate enforcement using any process set forth in the Paradise Municipal Code, including, but not limited to Chapter 1.08 (Enforcement of Violations), Chapter 1.09 (Administrative Civil Penalties) and Chapter 8.04 (Nuisance Abatement), and may seek the imposition of costs and civil penalties. Nothing in this provision is intended to prevent alternative enforcement mechanisms.
37. If the Paradise Municipal Code Chapter 1.09 process is used, the penalties set forth in Section 1.09.190 are increased because the health and safety hazards to the public shall be greater than in the general code enforcement context. The increased penalty is a **fine of one thousand dollars (\$1,000.00)** for the violation and such violations **shall also be a misdemeanor.**

Failure to uphold and maintain compliance with the conditions of this permit may result in the permit being administratively revoked by the Town of Paradise (PMC Section 17.32.600)

If you wish to appeal the decision of the Planning Commission, you must do so within seven (7) days of the date of the Planning Commission's decision by filing your written appeal together with the appeal fee deposit of \$117.38 to the Development Services Department. If no appeal is filed within the time period, your temporary use permit will be deemed approved.

DATE APPROVED BY THE PLANNING COMMISSION: _____

TEMPORARY USE PERMIT EFFECTIVE DATE: _____

Susan Hartman
Planning Director

j:\cdd\planning\letter\PL19-00383 Anderson Temp Use

**TOWN OF PARADISE PLANNING COMMISSION
PLANNING STAFF REPORT
MEETING DATE: April 21, 2020, 6:00 p.m.**

FROM: Susan Hartman, Community Development Director **AGENDA NO. 4 (b)**
SUBJECT: Fallon Site Plan Review Permit Application (PL19-00208)
DATE: April 14, 2020 **AP 055-240-013**

GENERAL INFORMATION:

Applicant: Mark & Catherine Fallon
5050 Edgewood Lane
Paradise, CA 95969

Location: 5050 Edgewood Lane

Requested Action: Site Plan Review permit approval to sanction the legal establishment and “three-phased” development and service operation of a cat kennel facility.

Purpose: To legally allow an existing and proposed future development expansion of the cat kennel facilities operated by “**Friends United in Rescue**” on the premises.

Present Zoning: Agricultural Residential, 3- acre minimum

General Plan Designation: Agricultural Residential

Existing Land Use: Two recreational vehicles, related accessory building/structures, and an unsanctioned cat kennel

Surrounding Land Use: North: Low density residential
East: Undeveloped/Open Space
South: Low density residential
West: Edgewood Lane

Parcel Size: ±19.43 acres

CEQA Determination: Exempt per CEQA Guidelines Section 15270

Other: An appeal of the Planning Commission’s decision can be made within seven (7) days of the decision date.

NOTE: THE APPLICANT OR A REPRESENTATIVE SHOULD BE IN ATTENDANCE OR THE PLANNING COMMISSION MAY NOT TAKE ACTION ON THIS APPLICATION

SPECIAL INFORMATION:

Important Note: Due to less than a Quorum present, and pursuant to Government Code Section 54955, the regular Planning Commission meeting scheduled for March 17, 2020 was adjourned to **April 21, 2020** at 6:00 pm in the Town of Paradise Council Chambers, 5555 Skyway, Paradise, CA. 95969. In addition, and pursuant to Government Code Section 54955.1, the noticed public hearing for this agenda item was ordered continued to the regular **April 21, 2020** Planning Commission meeting.

The project applicant, in association with “Friends United in Rescue”, is seeking authorization from the Town of Paradise to permit and expand an existing and unsanctioned indoor private cat kennel facility services operation for the long-term isolated and communal keeping of cats [estimated 60-70 cats shelter capacity]. The project property is situated three-quarters mile south of the southern terminus of the publicly maintained roadway of Edgewood Lane and abuts its graveled road surface that is subject to sporadic private road maintenance. It is currently developed with two temporary recreational vehicle occupancies, two accessory metal building structures, and a small wood frame “office” building.

The project is proposed to be broken down into three phases which include:

Phase 1 (buildings are currently on-site and being used):

- 18’x30’ metal building utilized as cat housing.
- 18’x25’ metal building utilized as a cat playground.
- 10’x16’ wood shed utilized as an office

Phase 2 (after the cat kennel is approved and permitted):

- ADA unisex bathroom and shower facility for “the public”.

Phase 3 (after the PG&E settlement is awarded):

- 40’x80’ metal storage building for items such as hay and equipment.
- 3 bed/2bath home not to exceed 1,440 sq ft.

The project description of the “Friends United in Rescue” cat kennel facility services operation includes not only the housing and caring of both domestic and feral cats but also the trapping of cats.

ANALYSIS:

Paradise Municipal Code (PMC) Section 17.11.200 (*Permitted and conditional uses*) provides that an indoor cat kennel, defined as any premises whereon five or more cats are kept, can become a permissible land use within the AR-3 zone subject to town approval and issuance of a site plan review permit. Hence, submittal of the Fallon Site Plan Review Permit application is consistent with the AR-3 zoning district regulations assigned to the project site. A related directive within the town’s zoning regulations regarding the

establishment of cat kennels is contained within PMC Section 17.45.450. It stipulates that the approving body for any site plan review may only approve the project if it finds that the land use, as conditioned, is consistent with the provisions of the town's zoning regulations, the policies of the Paradise General Plan, is compatible with the surrounding land uses, and does not impair the health, safety and welfare of the residents of the town. Town staff is not aware of any other site plan review permit application having been processed authorizing the establishment of a cat kennel land use in town. **[Note:** Included among the attached information materials is a Fallon SPR Permit application: General Plan Project Review document that identifies potentially project pertinent General Plan "constraints", "policies", and "land use designation".]

Project Review Concerning General Plan Consistency

Planning staff carefully reviewed the current Paradise General Plan and identified two General Plan constraints, six General Plan policies, two General Plan land use designations, and one General Plan goal that appear to have potential relevance to the project site property. For instance, the project property is located within a 1) a "**high fire hazard area**" and a "high archeological sensitivity area". Additionally, primary road access to the project property is solely afforded via Edgewood Lane, a General Plan designated "**collector road**". However, this roadway access is an excessive length cul-de-sac (exceeds 1,800 lineal feet) that is a) partially paved and town maintained (but substandard in road design); b) contains a lengthy roadway portion that is privately owned and nonpaved (graveled, etc.) and subject to infrequent private maintenance, and c) traverses north to south through a "high fire hazard area" with a lack of adequate roadway circulation connections.

The project applicant has indicated within their project application land use description that their private cat kennel facility services has and proposes to continue to offer community service to the public [i.e. public hours at the facility 11:00 am to 4:00 pm and by appointment]. Thus, one could conclude that this land use at this project location may not be consistent with the following listed General Plan policies:

LUP-40 "Community facilities should be compatible with traffic and circulation patterns."

SP-2 "Through the development review process, adequate roads shall be required to be constructed and/or improved for emergency vehicle access, particularly in high wildland fire hazard areas."

Brief Synopsis: Project Site Land Use History of Friends United in Rescue

A review of their website [friendsunitedinrescue.org] which is currently undergoing reconstruction reveals the following:

- 1) Friends United in Rescue [or FUR] is a registered 501c(3) organization that came

together during the Camp Fire in November 2018.

- 2) The FUR Camp Fire facility is called “Cat Camp” and is located on property at 5050 Edgewood Lane.
- 3) FUR states that they are working all over the State of California helping pets and people with spay & neuter, TNR (trap, neuter, release), rescue, adoptions and rehoming, microchipping, etc.

Project Review Regarding Paradise Municipal Code Compliance

Unfortunately, Friends United in Rescue has originated and practiced an illegal land use within unpermitted structures at their Paradise property location.

Included among the information materials attached to this staff report is a chronological package of detailed actions and related photos generated by Mr. Rick Trent, the Town’s Code Enforcement Officer. This package of Town information/actions verifies that the project applicants have been knowledgeable of their illegal land use and building activities at the project property [installation of a metal building and sheltering cats within and without building and land use permits] since **February of 2019** when a representative of FUR met with town staff at town hall regarding permitting requirements in response to code enforcement efforts. Additionally, despite the applicants’ knowledge of their illegal project site circumstances, they have a) not been timely with attempting to apply for and secure town approval of the necessary land use entitlement(s) and the necessary building permits [SPR permit application filed **September 24, 2019** and metal buildings permit application filed **January 23, 2020**], and b) opted to expand their cat kennel facilities operation by installing and operating a second metal building and electrical panel box without town approved and issued building permits.

PMC Chapter 5.15 (*Kennels*) requires the issuance of a town-approved kennel business license, certifying that the kennel is operating in a sanitary and proper manner, to authorize the legal sheltering of five or more cats on a single site. The project site cat kennel facility has been inspected by Town Animal Control staff and found to exhibit unsanitary conditions, detrimental cat sheltering, and improper unlicensed service operations. [**Note:** Town planning staff has made arrangement to have the Town’s Animal Control Services Supervisor in attendance at the hearing to further dialogue with the Planning Commission.]

ANALYSIS CONCLUSION:

Based upon the circumstances outlined above, material evidence of record and public testimony anticipated to be provided during the public hearing for this project, town staff has developed findings to support denial of the site plan review permit, should the Planning Commission choose not to approve the project application.

This project has been determined by planning staff to belong to a class of projects which

are exempt from environmental review, pursuant to the requirements of the California Environmental Quality Act (CEQA Section 15270 *Projects Which Are Disapproved*).

RECOMMENDATION:

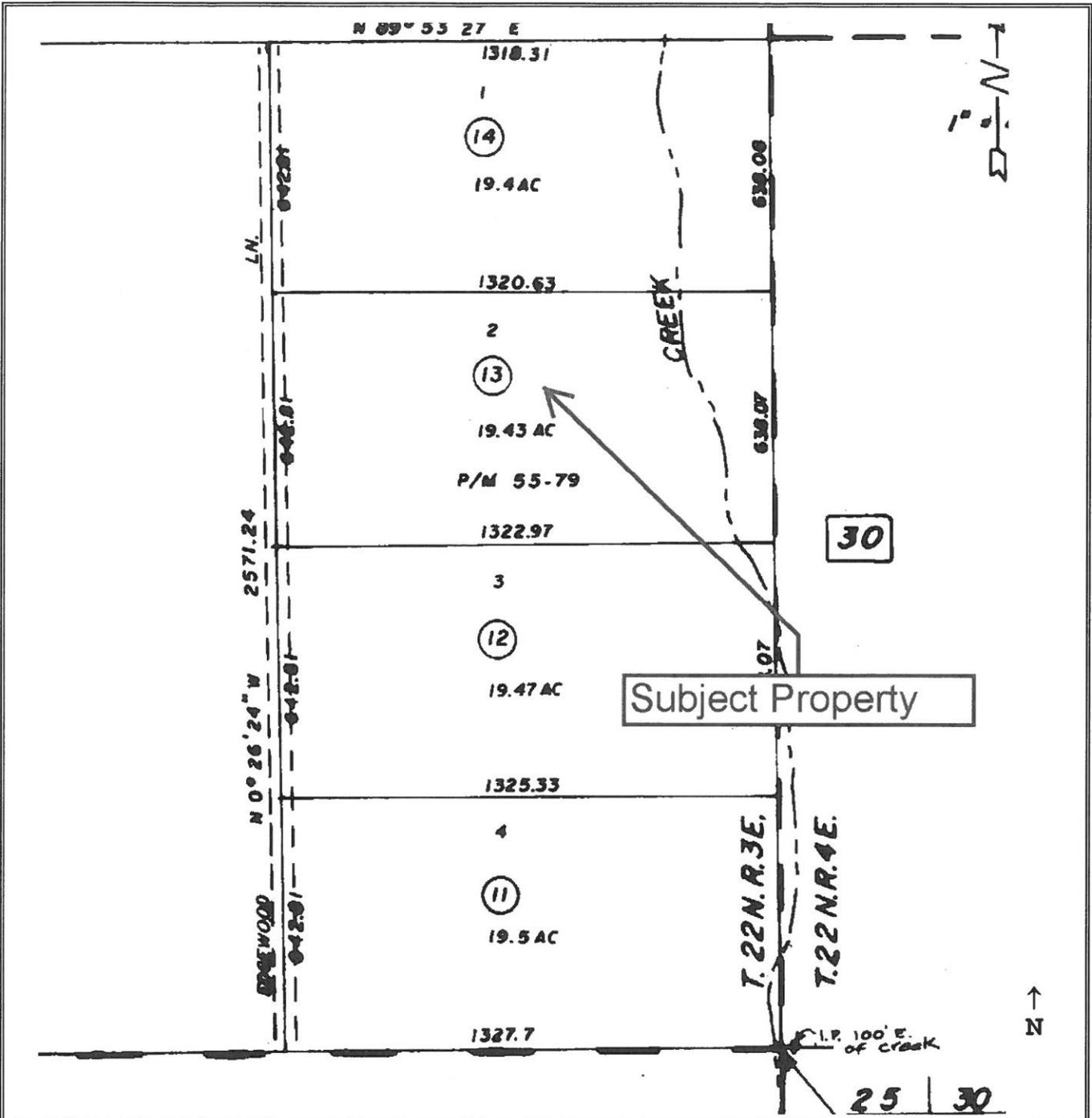
Conduct the public hearing for the Fallon site plan review permit and accept public testimony and material evidence regarding the project. Close the hearing, adopt findings of project denial provided by town staff and adopt a **Town denial** of the Fallon site plan review permit application (PL19-00208) for property located at 5050 Edgewood Lane (AP 055-240-013), requesting authorization to sanction an existing and proposed future development expansion of the indoor cat kennel facility.

REQUIRED FINDINGS FOR DENIAL:

- a. Find that, based upon material evidence and public testimony provided during the Fallon site plan review permit hearing, it is probable that project land use approval would result in the continued operation of a facility that is ineligible for licensing due to unsanitary kennel conditions.
- b. Find that the existing and proposed project location and land use services are not consistent with General Plan Policy No. LUP-40, which states that “community facilities should be compatible with traffic and circulation patterns”.
- c. Find that, based upon material evidence of record and public testimony, the proposed project would be detrimental to the public health, safety and general welfare.
- d. Find that, based upon material evidence of record and public testimony, the proposed project is currently and may continue to be detrimental to the health, safety, and general welfare of the cats being sheltered.

**LIST OF ATTACHMENTS FOR FALLON SITE PLAN REVIEW PERMIT
APPLICATION [PL19-00208]**

1. Project site vicinity map
2. Notice sent to surrounding property owners and the Paradise Post for the March 17, 2020 public hearing
3. Mailing list of property owners and agencies notified of the March 17, 2020 public hearing.
4. Project description submitted September 24, 2019 by applicant, Mark Fallon.
5. Mr. Fallon's written response to the town's request for additional project information Received January 27, 2020.
6. Fallon SPR Permit [PL19-00208] Application: General Plan Project Review
7. Comments from Fire Prevention Inspector Chris Rainey received February 4, 2020.
8. Comments from Paradise Irrigation District dated received February 10, 2020.
9. Comments received from Animal Control Officer Supervisor Jen Robbins dated October 8, 2019 and email comments received and dated February 20, 2020.
10. E-mail comments received from Bob Larson, Onsite Sanitary Official dated March 3, 2020.
11. Copy of Notice of Exemption dated March 9, 2020.
12. E-mail comments, attached notice of violations and photos received March 9, 2020 from Code Enforcement Officer, Rick Trent.
13. Written comments received from the public.
14. Site plan for the Fallon kennel project.



APPLICANT: Mark & Catherine Fallon		5050 Edgewood Ln
OWNER: Mark & Catherine Fallon		
PROJECT DESCRIPTION:		
Site Plan Review permit application to sanction the legal establishment and three-phased development of a cat kennel facility to be operated by "Friends United in Rescue".		
ZONING: AR-3	GENERAL PLAN: AR	FILE NO. PL19-00208
ASSESSOR PARCEL NOs. 055-240-013		MEETING DATE: March 17, 2020

NOTICE OF PUBLIC HEARING: PARADISE PLANNING COMMISSION

NOTICE IS HEREBY GIVEN by the Planning Commission that a public hearing will be held on **Tuesday, March 17, 2020 at 6:00 p.m.** in the Town Hall Council Chambers, 5555 Skyway, Paradise, CA, regarding the following project:

- a. Environmental Review: Item to be determined subject to CEQA Guidelines Section 15270

FALLON SITE PLAN REVIEW PERMIT (PL19-00208) APPLICATION Planning Commission consideration of a Site Plan Review permit to sanction the legal establishment and “three-phased” development and service operations by “Friends United in Rescue” of a cat kennel facility. Project property is a 19.43-acre parcel zoned Agricultural Residential, 3-acre minimum (“AR-3”) located at 5050 Edgewood Lane, Paradise, AP No. 055-240-013.

The project file is available for public inspection at the Development Services Department, Town of Paradise, Town Hall. If you challenge this project in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Town Planning Director at, or prior to, the public hearing. For further information please contact the Development Services Department at (530) 872-6291 x114.

SUSAN HARTMAN
Planning Director



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Paradise Irrigation District
6332 Clark Road
Paradise, CA 95969

Paradise Recreation & Park Dist.
6626 Skyway
Paradise, CA 95969

Paradise Ridge Chamber of
Commerce
6161 Clark Road Ste. 1
Paradise, CA 95969

Paradise Board of Realtors
6178 Center Street
Paradise, CA 95969

Butte County Planning
Courier

Paradise Cemetery District
980 Elliott Road
Paradise, CA 95969

Butte Co. Air Quality Mgmt. Dist.
629 Entler Ave., Suite 15
Chico, CA 95928

Butte Environmental Council
313 Walnut St., Ste. 140
Chico, CA 95928

Pacific Gas & Electric
Laird Oelrichs, Land Agent
350 Salem St.
Chico, CA 95928



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055-240-013-000
FALLON MARK & CATHERINE
5050 EDGEWOOD LN
PARADISE CA 95969

055-240-007-000
SIERRA PRESERVATION PARTNERS II LLC
4425 JAMBOREE RD STE 250
NEWPORT BEACH CA 92660

055-240-014-000
CRAFT KENNETH L & VIRGINIA E
PO BOX 2723
PARADISE CA 95967

055-290-083-000
PARADISE EVANGELICAL FREE CHURCH
5095 PENTZ RD
PARADISE CA 95969

055-530-008-000
BATTS RICHARD & HANNA DIANA
4918 MALIBU DRIVE
PARADISE CA 95969

055-530-009-000
LUTON JAMES S REVOCABLE LIVING TRUST
C/O LUTON JAMES S & HIMELICK SUSAN
TRUSTEES

055-530-010-000
KASZA FAMILY TRUST
C/O KASZA KAROLY & ELISABETH TRUSTEES
5011 COUNTRY CLUB DR
PARADISE CA 95969

055-530-012-000
ARKENBERG FAMILY TRUST
C/O ARKENBERG ROBERT J & BETTY JO
TRUSTEES
4878 MALIBU DR
PARADISE CA 95969

055-530-007-000
REYNOLDS ZEBULON & ANNA
4926 MALIBU DR
PARADISE CA 95969

055-240-012-000
COLVIN JOSHUA L
1692 MANGROVE AVE #233
CHICO CA 95926

055-530-011-000
KASZA ELIZABETH J
175 FALCONS POINTE DR
CHICO CA 95928

Mark and Cathy Fallon
5050 Edgewood Ln
Paradise, CA 95969
530.570.4185

Town of Paradise
5555 Skyway
Paradise, CA 95969

Sept. 20, 2019

RE: Site Plan for 5050 Edgewood Ln. Paradise

To whom it may concern;
This site plan shows all proposed projects.

(Phase I)

At this time I am requesting to permit The Cat Kennel operated by "Friends United in Rescue".

There are 2 metal buildings and 1 wood sided building needed for the cat kennels operation;

A. 18' x 30' x 13' 4" tall metal frame and sided, color is white roof with red sides.
(Insulated cat housing)

B. 10' x 16' x 8' tall wood frame with wood sides, color is red with white trim. (Office)

C. 18' x 25' x 8' tall metal frame with metal roof and insulated 1/2 partial sided.
Color: gray roof with gray walls. (Cat playground)

There will be 2 signs for the kennel;

- a. 6" x 12" sign saying "CAT Kennel" pointing to the buildings. White Background with black lettering.
- b. Sign in front 12" x 24" saying "Friends United in Rescue". White Background with black lettering.

(Phase II)

After the Cat Kennel is approved and permitted, a ADA Unisex Bathroom and shower facilities for the public will start going through the permit process. Brown cleaved slump stone with tan metal roof with all proper signage.

(Phase III)

Since we cannot complete either one of the projects in Phase III until PG&E settles and pays monies owed; both 1 and 2 will jointly go through the permit process together.

1. The proposed 40x80 Metal Storage Building (3000sq' open storage) with an 200sq' lockable storage room inside the building (3200sq' total under roof). (for Hay and Equipment) will include a 40" x 60" sign stating "Kastlerock Ranch Welcome" at the entrance near the road

2. A 3 bedroom, 2 bath residence not to exceed 1440sq' (the size of the burnt down residence)

All unfinished proposed work will be completed, including landscaping, gravel, Fire Hydrant if needed, etc.

During the rebuilding process Kastlerock Ranch, an educational training facility for children who are interested in horses and livestock, will be open in a limited capacity. Only on Friday afternoons from 3 pm to sunset, and Saturday from 10 am to 2 pm, rain or shine. Please visit our website at www.kastlerockranch.com for more information.

Thank You
Mark Fallon



Mark and Cathy Fallon

5050 Edgewood Ln

Paradise, CA 95969

530.570.4185

Town of Paradise

Community Development Dept

Town of Paradise
5555 Skyway
Paradise, CA 95969

Jan. 27, 2019

JAN 27 2020

RECEIVED

RE: Clarification for Fallon Use Permit (PL19-00208) incomplete status

Ms. Hartman,

Here is the info that you requested.

3a. Heating will be achieved by using a wall Heater and cooling will be achieved through a air conditioning unit and fans for the main cat building when needed.

3b Electric utilities will come from a current sub panel to a sub panel centrally located so each building will have 2 power circuits going to the buildings. A sink will be located in the cat housing area discharging into the existing septic system via a sump pump.

3c. Floors are swept free of debris before the wash down occurs, using a mop and bucket or scrub brush with a cleaner/disinfectant. The floor will be concrete with epoxy coating in the main cat housing. Walls will be insulated and the sheet-rock walls painted. All wastewater will be dumped into a sink connected to the existing septic. Litter boxes are cleaned and all waste is bagged and placed in the dumpster daily for weekly disposal.

3d. The public hours are 11am to 4pm by appointment. Volunteers arrive throughout the day or night at various times, before and after, public access. Rescue and trapping occurs during the night hours with property owners permission and immediately brought to Cat Camp. Lighting will be provided for evening access to the kennels for safety to both the public and volunteers. When there are no administrators or volunteers present, Mark and Cathy Fallon are on site, 24 hours per day, 365 days per year for any after hour inquiries.

3e. When cats arrive at Cat Camp, they are isolated to be sure they are not ill or have other issues, before they are put into a communal room. We can isolate up to 20 cats at a time depending on their age in standard two tier animal hospital kennels. Only bonded pairs are kept together in the hospital kennels and litters of kittens are placed in our largest size kennels. Communal rooms can house up to 15 cats each as they have outside access to exercise and there are two in the main housing building. The feral cat communal building (gray building referenced in 3g) can house 30 cats as they have outside access to exercise.

3f. There are kennels designated for sick cats that are separate from the isolation kennels. Several volunteers have rescue/foster experience, some have vet tech training. With the volunteers members activities and experiences, Friends United in Rescue has access to several professional veterinarians that can be consulted. Anything beyond what a vet tech can provide, the cats are taken to a local veterinarian depending on who's is available.

3g. (A). Heating will be achieved by using a wall heater and cooling will be achieved through fans for feral cat buildings and air conditioning, if needed.

(B) Electric utilities will come from a current sub panel to a sub panel centrally located so each building will have 2 power circuits going to the building. The feral cat housing will not have a sink.

FALLON SPR PERMIT [PL19-00208] APPLICATION: GENERAL PLAN PROJECT REVIEW

G. P. Constraints:

- High archeological sensitivity area
- High fire hazard area

G.P. Policies:

LUP-11 "Development projects should be designed in a manner to accommodate the constraints on a parcel by avoiding them altogether or creating minimal loss or conflict."

LUP-40 "Community facilities should be compatible with traffic and circulation patterns."

CP-4 New land use development shall be required to mitigate its share of the circulation impacts it creates."

NP-8 "The town should endeavor to preserve quiet residential areas by limiting traffic and noise-generating uses in such areas."

SP-2 "Through the development review process, adequate roads shall be required to be constructed and/or improved for emergency vehicle access, particularly in high wildland fire hazard areas."

OCEP-43 "The design of collector streets shall include bicycle lanes, and cul-de-sacs shall be connected by paths wherever possible."

G.P. Land Use Designation is (A-R):

Agricultural-Residential: "Applies to existing and planned residential areas characterized by larger parcels and accessory agricultural uses."

Edgewood Lane Project Access: A G.P. Designated "collector road".

G.P. GOAL: "Maintain the integrity of residential neighborhoods by minimizing traffic and associated noise impacts."



Town of Paradise

PARADISE FIRE & RESCUE

767 Birch Street, Paradise, CA 95969
www.townofparadise.com
(530) 872-6264



Development Review

Project Name: Fallon SPR
Location: 5050 Edgewood Lane, Paradise
APN: 055-240-013-000
Applicant: Mark & Catherine Fallon [Applicant & Owners]
Project No. PL19-00208
Date of Plan Review: February 4, 2020
Review conducted by: Chris Rainey, Fire Prevention Inspector

Town of Paradise
Community Development Dept

FEB 04 2020

RECEIVED

Revised Site Plan Review permit application to sanction the legal establishment and three-phased development of a cat kennel facility to be operated by "Friends United in Rescue".

Development review was performed and the following comments were generated:

General:

1. Prior to final inspection or occupancy, hand portable fire extinguishers are required to be installed as directed by Town of Paradise Fire Department staff with a minimum rating of 2-A:10-B:C shall be located in conspicuous locations where they will be readily accessible and immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel.
2. Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus of 75,000 lbs. and shall be surfaced so as to provide all weather driving capabilities.
3. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches.
4. Any gate or barrier across a fire access roadway, whether manual or automatic, must meet the Town of Paradise Fire Department requirements and have specific plans and permits approved prior to installation.
5. All flammable vegetation shall be removed from each building site a minimum distance of one hundred (100) feet from all structures or to the property line, whichever is less.
6. Knox emergency access key box is required at the main office building, with specific mounting locations approved by the Town of Paradise Fire Department. Recessed

mount key boxes are required. Premise keys for all buildings and areas shall be marked and placed in the box prior to final inspection to ensure emergency access. The building owner/occupants shall provide replacement keys whenever locks are changed.

7. The Town of Paradise is located in a Very-High Fire Hazard Severity Zone, all structures shall meet all the requirements of California Building Code Chapter 7A Materials and Construction Methods for exterior wildfire exposure.

Thank you,
Chris Rainey
Fire Prevention Inspector
Town of Paradise
530-872-6291 x304

TOWN OF PARADISE DEVELOPMENT SERVICES DEPARTMENT

DEVELOPMENT REVIEW REQUEST

TO: Fire, Onsite, Animal Control, CSS, PID

FROM: Susan Hartman, Acting Planning Director *SH*

REQUEST: Review and Comment

DESCRIPTION OF PROJECT: Revised Site Plan Review permit application to sanction the legal establishment and three-phased development of a cat kennel facility to be operated by "Friends United in Rescue".

LOCATION: 5050 Edgewood Lane, Paradise

AP NOS.: 055-240-013

APPLICANT: Mark & Catherine Fallon [Applicant & Owners];

ENGINEER: N/A

CONTACT PHONE: (530) 570-4185

RETURN DATE REQUESTED: February ¹⁰ 4, 2020

Town of Paradise
Community Development Dept

DATE DISTRIBUTED: January 30, 2020

FEB 10 2020

RECEIVED

DOES YOUR AGENCY HAVE THE CAPACITY TO SERVE THIS PROJECT?

YES YES, WITH CONDITIONS NO (EXPLAIN BELOW)

COMMENTS AND/OR RECOMMENDED CONDITIONS:

Backflow Required - order not installed
None - Potable water currently

NO RESPONSE FROM YOUR AGENCY MAY BE CONSTRUED THAT YOUR AGENCY HAS THE ABILITY TO SERVE THIS PROJECT.

PLEASE MAKE A COPY FOR YOUR RECORDS.

TOWN OF PARADISE DEVELOPMENT SERVICES DEPARTMENT

DEVELOPMENT REVIEW REQUEST

TO: Fire, Onsite, Eng., Animal Control, CSS, PID

FROM: Susan Hartman, Acting Planning Director *SH*

REQUEST: Review and Comment

DESCRIPTION OF PROJECT: Site Plan Review permit application to sanction the legal establishment of a cat kennel facility to be operated by "Friends United in Rescue".

LOCATION: 5050 Edgewood Lane, Paradise

AP NOS.: 055-240-013

APPLICANT: Mark & Catherine Fallon [Applicant & Owners];

ENGINEER: N/A

CONTACT PHONE: (530) 570-4185

Town of Paradise
Community Development Dept

RETURN DATE REQUESTED: **October 4, 2019**

DATE DISTRIBUTED: **September 26, 2019**

OCT 08 2019

*****RECEIVED*****

DOES YOUR AGENCY HAVE THE CAPACITY TO SERVE THIS PROJECT?

YES **YES, WITH CONDITIONS** NO (EXPLAIN BELOW)

COMMENTS AND/OR RECOMMENDED CONDITIONS:

WE HAVE HAD LONG STANDING ISSUES WITH THIS ENTITY; THEIR FACILITY IS EXTREMELY DIRTY,
CAGES ARE NOT LARGE ENOUGH, ALL THE CATS ARE SICK, THEY ARE UNETHICALLY KEEPING FERAL CATS
IN DOG KENNELS IN GROUPS TOGETHER, THEY ARE BREEDING CATS IN FROM OTHER COUNTRIES,

NO RESPONSE FROM YOUR AGENCY MAY BE CONSTRUED THAT YOUR AGENCY HAS THE ABILITY TO SERVE THIS PROJECT.

PLEASE MAKE A COPY FOR YOUR RECORDS.

CONTD! THEY LACK THE PROPER KNOWLEDGE FOR SHELTERING / ISOLATION, CROSS CONTAMINATION, ETC.
THEY ALSO ARE ILLEGALLY RECOMMENDING MEDIATIONS TO NEW ADOPTERS FOR THEIR SICK CATS.
PARADISE ANIMAL CONTROL IS WORKING ON PRESSING CHARGES AGAINST F.U.R. W
THE BUTTE COUNTY DISTRICT ATTORNEYS OFFICE. - J. ROBBINS

McGreehan, Al

From: Hartman, Susan
Sent: Wednesday, February 26, 2020 10:03 AM
To: McGreehan, Al
Subject: FW: Kennel Permit



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Robbins, Jennifer <jrobbins@townofparadise.com>
Sent: Thursday, February 20, 2020 1:45 PM
To: Trent, Rick <rtrent@townofparadise.com>; Deppe, Rick <rdeppe@townofparadise.com>; Hartman, Susan <shartman@townofparadise.com>
Subject: Kennel Permit

I wanted to share our Muni-Codes regarding Animal Controls role in Kennel Permit process as far as application, denial, suspension, revocation:

6.28.020 - Application for license.

C.

Upon the filing of each application hereunder, either for an original license or a renewal thereof, the supervisor of animal control or his designee shall make such investigation as he deems proper, which includes at a minimum those subjects listed under subsections A, B and C of Section 6.28.025.

5.15.030 - Rabies and animal control clearance required.

No kennel license shall be issued unless proof has been presented that all dogs owned by the kennel owner or operator in the kennel have been vaccinated against rabies, nor shall any kennel license be issued until the town's animal control officer or his authorized representative has first issued a certificate that the kennel is operated in a sanitary and proper manner so as not to constitute a nuisance to the neighborhood. (Ord. 129 §5.15.030, 1985)

6.28.025 - Revocation, suspension or denial—Grounds—Procedure.

D.

If it is determined by the director of animal control that the health and safety of any of the animals is in peril, he may suspend the license immediately, pending further review or a hearing as described in subsection A of th

section. Such immediate suspension does not prohibit or limit the licensee to pursue the appeal process, nor eliminate his rights to a hearing before the director of animal control. (Ord. 200 52(part), 1990)

All of our agents, including myself, have voiced our concerns and disapproval of this cat kennel due to previous inspections. I believe with my comments from the last time I filed out my portion of the development review request form, I made clear statements, observations, concerns, which I think touch on all our municipal codes to stop this process.

Let me know.

-Jen

McGreehan, Al

From: Hartman, Susan
Sent: Tuesday, March 03, 2020 8:00 AM
To: McGreehan, Al
Subject: FW: 5050 Edgewood

FYI



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Larson, Bob <blarson@townofparadise.com>
Sent: Tuesday, March 3, 2020 7:59 AM
To: Hartman, Susan <shartman@townofparadise.com>
Cc: Cook, Debbie <dcook@townofparadise.com>
Subject: 5050 Edgewood

FYI,

I have approved the LUR for a 3 bedroom residence and the proposed cat kennel with a maximum daily flow of 388 gpd. However, my accelera is down and I can not generate reports at this time. I will get you a copy once Stratti fixes my issues.

I am going to allow them to utilize the existing wastewater system for phase # 1 (cat kennel) noted in Haling and Associates report. They will be required to secure a new construction permit for the future 3 bedroom residence.

Bob Larson
Onsite Sanitary Official
Town of Paradise

NOTICE OF EXEMPTION

TO: File – [PL19-00208]; AP No. 055-240-013

FROM: Town of Paradise, Community Development Department,
Planning Division, 5555 Skyway, Paradise CA 95969

PROJECT TITLE: Fallon Site Plan Review Permit

PROJECT APPLICANT: Mark & Catherine Fallon [Owners]

PROJECT LOCATION: 5050 Edgewood Lane, Paradise, CA.

PROJECT DESCRIPTION: Proposed permit to sanction legal establishment and “three-phased” development of a cat kennel facility services land use.

**APPROVING PUBLIC
AGENCY:** Town of Paradise

**PERSON OR AGENCY
CARRYING OUT PROJECT:** Mark Fallon

EXEMPT STATUS: ___ General Rule Exemption (Section 15061)
___ Ministerial (Section 15268)
___ Emergency Project (Section 15269)
X CEQA Exemption
Section 15270

REASON FOR EXEMPTION: Project Disapproval

CONTACT PERSON: Susan Hartman, CDD Director
(530) 872-6291

SIGNATURE:



Planning Director

Date: March 9, 2020

McGreehan, Al

From: Hartman, Susan
Sent: Monday, March 09, 2020 8:33 AM
To: McGreehan, Al
Subject: FW: Cat Kennel
Attachments: EdgewoodLn-5050-Building.doc; EdgewoodLN-5050-Building.doc; EdgewoodLN-5050-Building X2.doc; EdgewoodLn-5050-CatKennel.doc



Susan Hartman
Community Development Director
Town of Paradise
(530) 872-6291 ext. 114
shartman@townofparadise.com

From: Trent, Rick <rtrent@townofparadise.com>
Sent: Monday, March 9, 2020 8:16 AM
To: Hartman, Susan <shartman@townofparadise.com>
Subject: Cat Kennel

Susan,

All of my photos for 5050 Edgewood are in the folder 1-Cat Kennel and date from my first visit on 2/21/19 to the last one on 1/22/20. On 1/22 I took photos of the "Stop Work Notice" and the small shed obviously being lived in and picture 101845 shows an unpermitted pump system running from the RVs to the original septic system up by the kennel. Rick Deppe was with me on 1/22/20, his photos showing the inside of the buildings and the unpermitted underground electrical are in folder 1-Cat Kennel-Deppe, Edgewood 5050. Attached are the NOVs for the kennel and buildings w/o permits and the first and second citations for the buildings, no citations were issued for the kennel.

Regards,

Rick Trent
Code Enforcement Officer
Town of Paradise
530-872-6291 x-124

TOWN OF PARADISE COURTESY NOTICE OF VIOLATION

Date: 8/1/2019 Time: 8:00 AM APN: 055-240-013

Address: 5050 Edgewood Lane, Paradise, Ca. 95969 Tenant: _____

Tenant Mailing Address (if different): _____

Property Owner: Mark & Catherine Fallon

Mailing Address (if different): _____

The Paradise Municipal Code (PMC) was adopted to promote and ensure the public health, safety and general welfare of our residents. Town staff has identified the following violation(s) which must be corrected:

PMC 17.04.500

"Kennel" means any LOT, BUILDING, STRUCTURE, or premises whereon or wherein five (5) or more dogs or five (5) or more cats, over the age of four (4) months are kept or maintained for any purpose. Kennel definition shall not be construed as applying to a duly licensed veterinary hospital or public animal shelter.

The keeping of more than 5 cats over the age of 4 months without the permits required for your zoning (AR-3) is a violation of the zoning ordinance. Your zoning may allow for an indoor or outdoor kennel subject to the approval and/or conditions of the respective site plan review or conditional use permit. A completed kennel application must be received within 3 days of the date of this notice. Failure to comply may result in a citation.

Delivered To: Property Owner/Tenant (date) 8/1/2019 and/or Date Posted: 8/1/2019
and/or Date Mailed to Owner: ___ and/or Date Mailed to Tenant: _____

**FULL COMPLIANCE MUST BE ACHIEVED WITHIN 3 DAYS.
IMPORTANT INFORMATION ON THE REVERSE SIDE OF THIS NOTICE.
UNLESS CORRECTED, PROPERTY OWNER AND ANY TENANT MAY BE CITED.**

Thank you for your help and civic pride in the Town of Paradise. Although we regret any inconvenience that this action may cause you, it is in your best interest to attain compliance. If any items involve health and safety, those items shall be corrected immediately. A complete copy of the code pertaining to the above may be obtained from the Town Clerk. If you have any questions, please do not hesitate to call me.

**Rick Trent, Town of Paradise Code Enforcement Officer • 5555 Skyway, Paradise, CA 95969
Telephone (530) 872-6291 (extension 124) • E-mail: rtrent@townofparadise.com**

TOWN OF PARADISE NOTICE OF VIOLATION ADMINISTRATIVE CITATION

DATE OF VIOLATION: 11/25/2019	TIME: 0900	CITATION NUMBER: 19112502RT
NAME: Mark and Catherine Fallon		
ADDRESS: 5050 Edgewood Lane		
CITY: Paradise	STATE: CA	ZIP CODE: 95969
LOCATION OF VIOLATION(S) IF DIFFERENT THAN ABOVE ADDRESS:		APN: 055-240-013

PARADISE MUNICIPAL CODE (PMC) VIOLATION(S):

15.02.210 (a) It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy or maintain any real property, building, structure, or building service equipment or cause or permit the same to be done in violation of Title 15 of the Paradise Municipal Code (PMC), this code or the technical codes as amended and adopted by the town.

Permits are required for the metal buildings (2) constructed on the west side of your property. A complete application with building and plot plans must be submitted within 30 days of this notice. Failure to comply may result in additional citations. Please help us to rebuild Paradise while protecting the public health, safety and general welfare of all residents.

PENALTY AMOUNT (FOR EACH COUNT)

X 1st Citation \$100.00 2nd Citation \$200.00 3rd and Subsequent Citation(s) \$500.00

(PENALTIES PURSUANT TO CALIFORNIA GOVERNMENT CODE SECTION 36900)

\$100.00 TOTAL PENALTY DUE WITHIN THIRTY (30) DAYS.

**FAILURE TO PAY THE PENALTY WILL RESULT IN 100% ADDITIONAL
PENALTY AND RECORDED LIEN AGAINST ANY REAL PROPERTY.
YOU CAN BE CITED EACH AND EVERY DAY THE VIOLATION(S) EXISTS.**

IMPORTANT INFORMATION: ORDER, PENALTY INFORMATION, PAYMENT AND APPEAL PROCEDURES ARE PRINTED ON THE **REVERSE SIDE** OF THIS CITATION. PENALTIES SHALL BE DUE AND PAYABLE WITHIN 30 DAYS AFTER ISSUANCE OF THE CITATION. PLEASE WRITE THE ABOVE CITATION NUMBER ON THE CHECK OR MONEY ORDER (CASH OR CREDIT CARDS ARE ALSO ACCEPTABLE) AND **MAKE PAYABLE TO THE "TOWN OF PARADISE."**

SIGNATURE OF CODE ENFORCEMENT OFFICER:

DATE ISSUED:

11/25/2019

Rick Trent, Code Enforcement Officer (530)872-6291 ext.124

TOWN OF PARADISE NOTICE OF VIOLATION ADMINISTRATIVE CITATION

DATE OF VIOLATION: 1/21/2020	TIME: 0900	CITATION NUMBER: 20012101RT
NAME: Mark and Catherine Fallon		
ADDRESS: 5050 Edgewood Lane		
CITY: Paradise	STATE: CA	ZIP CODE: 95969
LOCATION OF VIOLATION(S) IF DIFFERENT THAN ABOVE ADDRESS:		APN: 055-240-013

PARADISE MUNICIPAL CODE (PMC) VIOLATION(S):

15.02.210 (a) It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy or maintain any real property, building, structure, or building service equipment or cause or permit the same to be done in violation of Title 15 of the Paradise Municipal Code (PMC), this code or the technical codes as amended and adopted by the town.

Permits are required for the metal buildings (2) constructed on the west side of your property. A complete application with building and plot plans must be submitted within 30 days of this notice. Failure to comply may result in additional citations. Please help us to rebuild Paradise while protecting the public health, safety and general welfare of all residents.

PENALTY AMOUNT (FOR EACH COUNT)

1st Citation \$100.00 **X** 2nd Citation \$200.00 3rd and Subsequent Citation(s) \$500.00

(PENALTIES PURSUANT TO CALIFORNIA GOVERNMENT CODE SECTION 36900)

\$200.00 TOTAL PENALTY DUE WITHIN THIRTY (30) DAYS.

**FAILURE TO PAY THE PENALTY WILL RESULT IN 100% ADDITIONAL
PENALTY AND RECORDED LIEN AGAINST ANY REAL PROPERTY.
YOU CAN BE CITED EACH AND EVERY DAY THE VIOLATION(S) EXISTS.**

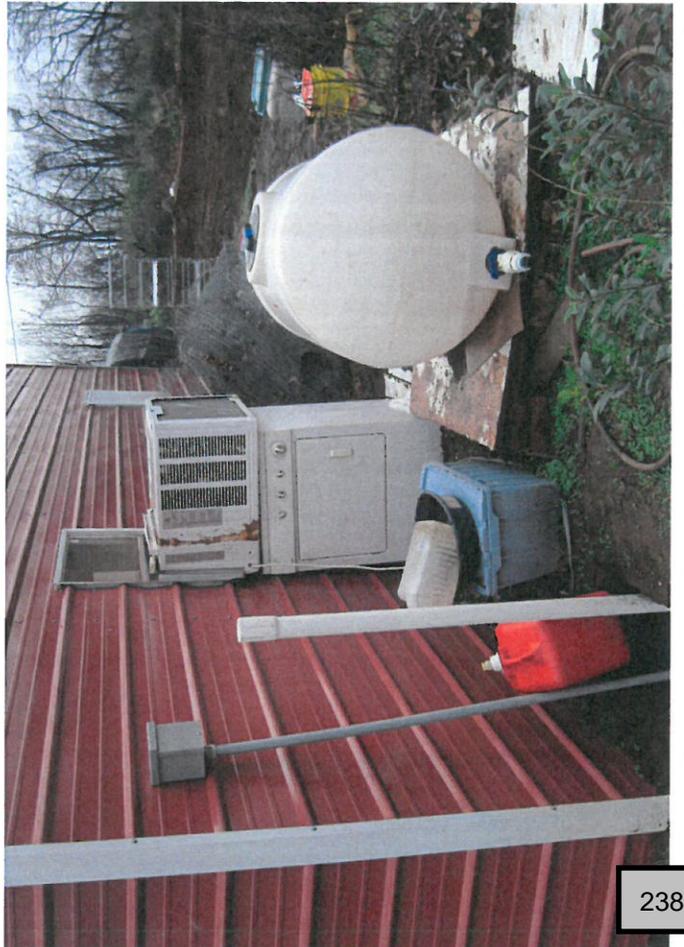
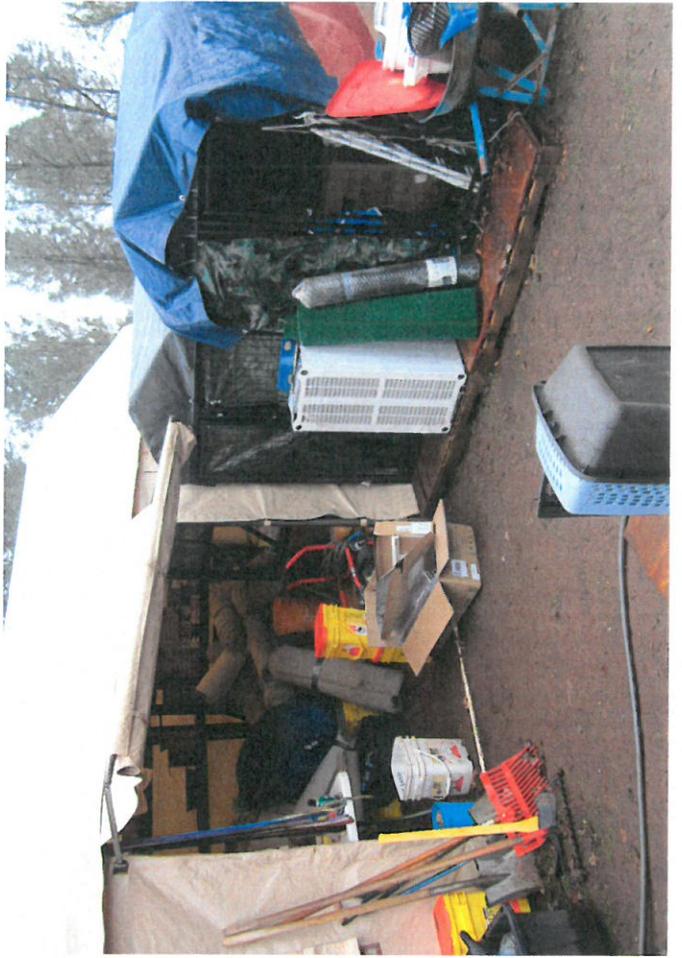
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SIGNATURE OF CODE ENFORCEMENT OFFICER:

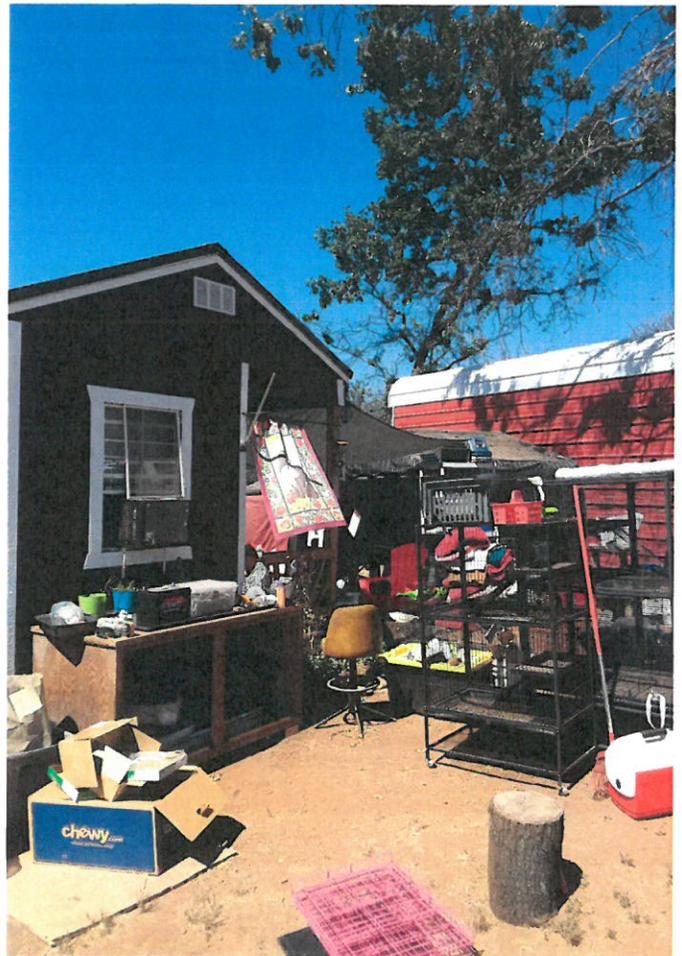
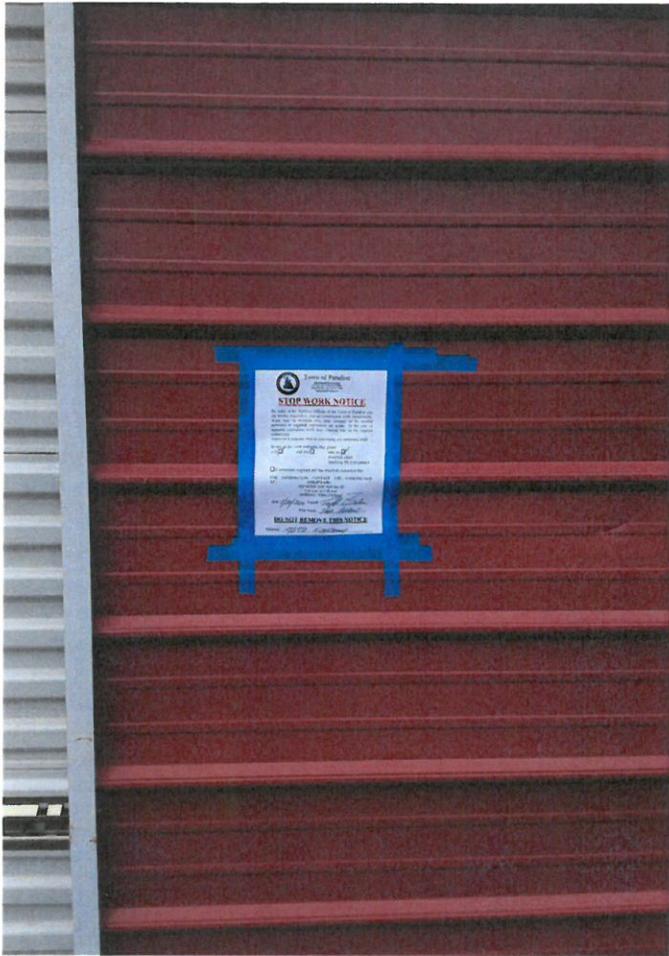
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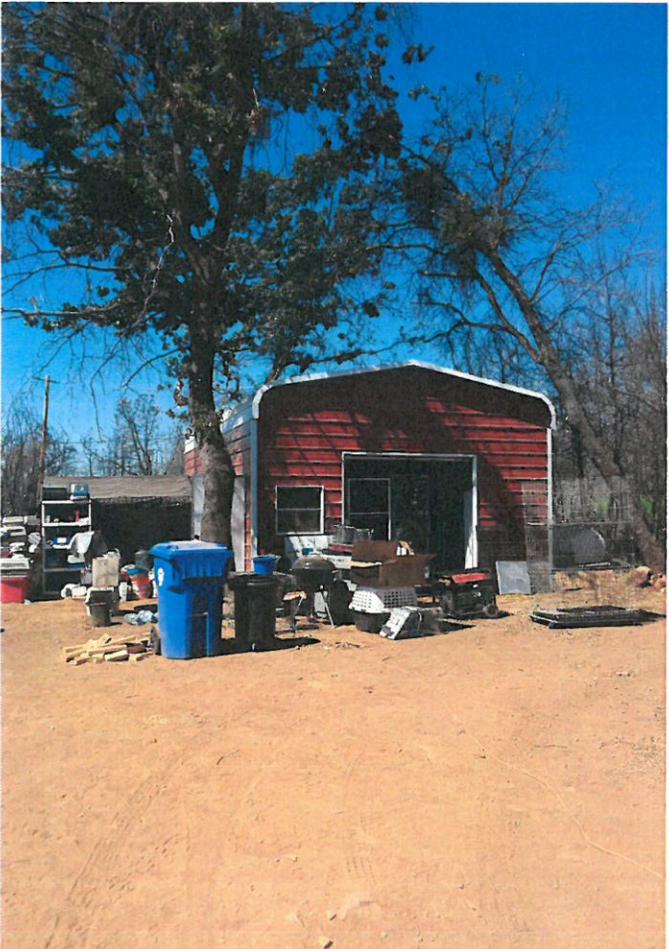
1/21/2020

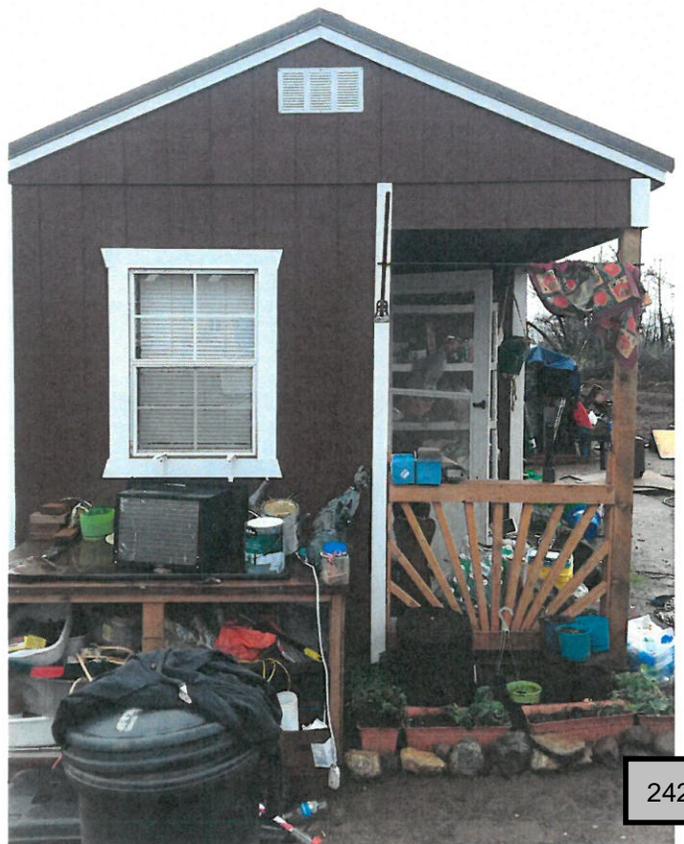
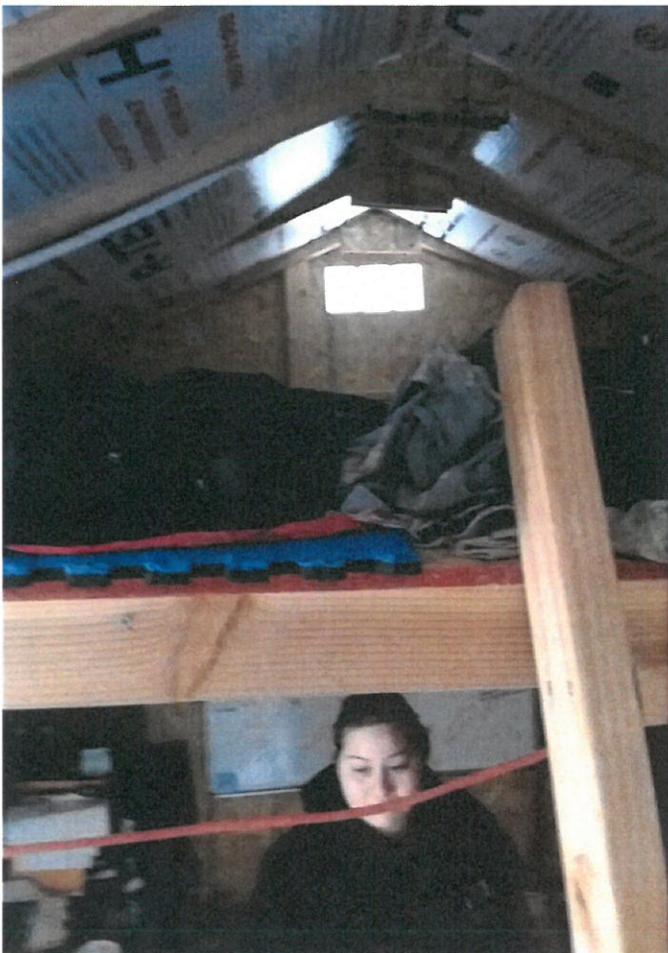
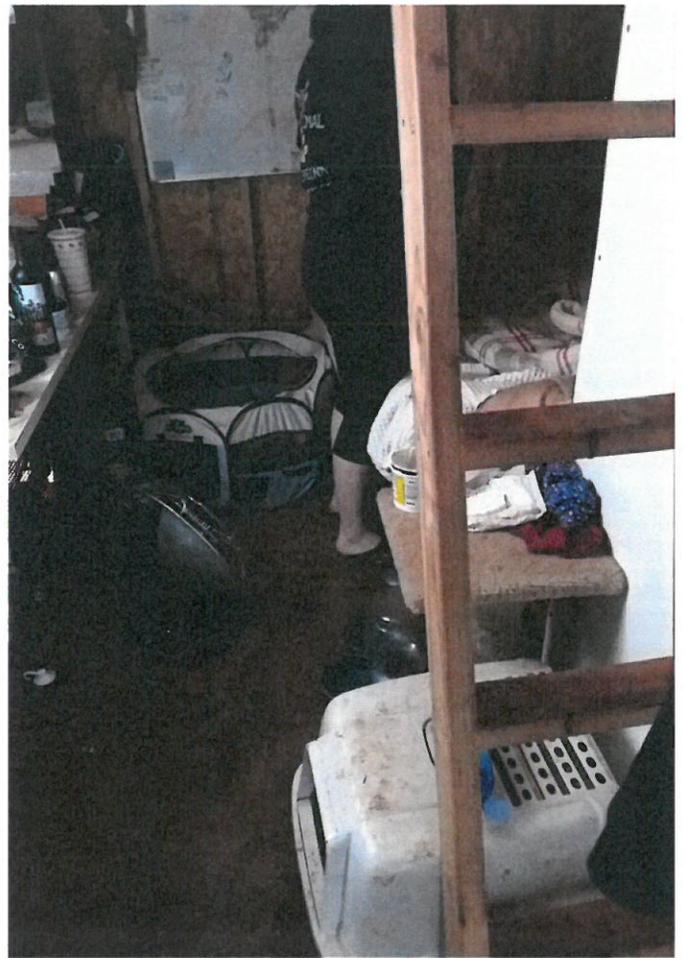
Rick Trent, Code Enforcement Officer (530)872-6291 ext.124



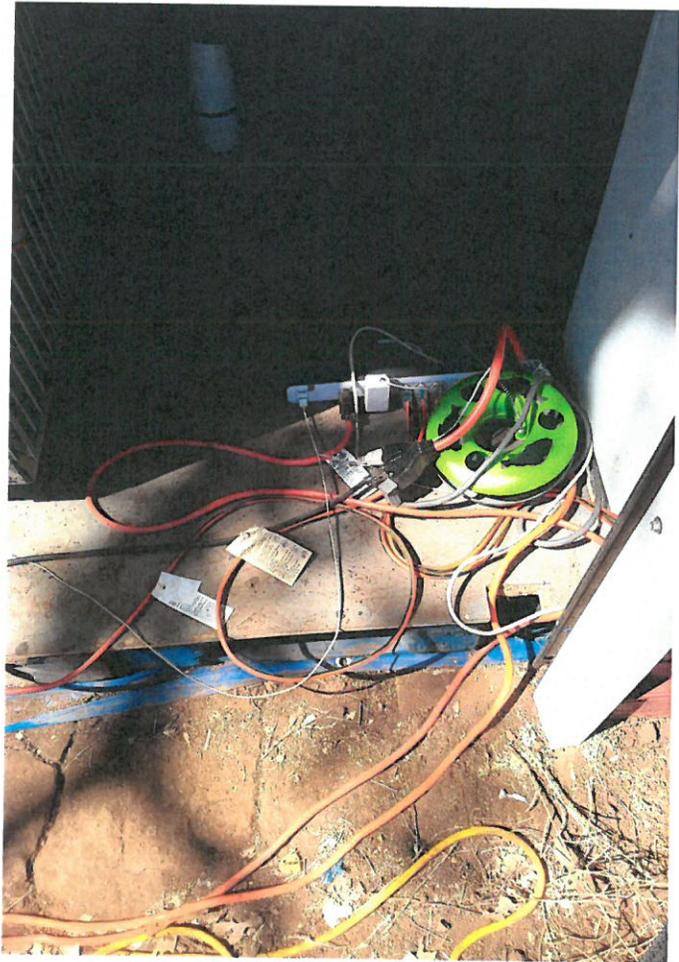












From: [Ginny Craft](#)
To: [Volenski, Dina](#)
Subject: Planning Commission 5 B
Date: Wednesday, March 18, 2020 2:00:21 PM

We are the Craft's Ken and Ginny. We have lived at 5114 Edgewood lane Paradise for 45 years. We live next door to the Fallons, Mark and Kathy at 5050 Edgewood lane. Our house is .3 miles from where the pavement ends and continues with a gravel road.

We are against the site permits for a cat kennel facility. "Friends United in Rescue" at the 5050 Edgewood lane Paradise, Ca. SO no. 055-240-013.

We are not saying the business shouldn't be in Paradise! We are saying this is not the road it should be on. Our road has been destroyed by large trucks and heavy equipment during the camp fire both the paved and gravel parts.

When we bought our property we had to sign a road maintenance agreement. Since 1975 we have done our share of road maintenance. We and several other neighbors that resided on the unpaved part of Edgewood have voluntarily gave money to buy several loads of gravel through out the years. We also had a couple of guys not only volunteer there time but also the use of there tractors and gas to run them.

Mr Fallon has never contributed to the road maintenance fund or volunteered to shovel gravel in pot holes on the road. (Maybe only in front of his own property) yet he has had a horse ranch named Kastlerock horse ranch for several years after moving on Edgewood lane. He had horse riding lessons and that created traffic from folks dropping there kids off and picking them up. We don't know if that business was ever permitted.

It ends up we have been maintaining this road for his customers to use!!! We have put up with people stopping and asking for location of the business, people speeding down the road to make their appointments and the dust they create. The unpaved part of the road is very dusty when it hasn't been rained on.

Now Mr Fallon wants to have a cat rescue on his property creating more traffic. He even has a special garbage pick up every Tuesday for the businesses. That's another big truck creating more pot holes

And clouds of dust on the road. We do not need this!!!

We don't need another business on Edgewood lane.!!

This area is zoned A-2 limited.

My husband and I do believe Hannah M Braden is doing a good deed by helping with the cat rescue. Her heart is in a good place however this is not fair to people living on Edgewood lane to have to put up with the traffic this business will cause and already has. Hannah herself said in a post to facebook the business has another facility in Chico, Ca.

Before anyone says yes to this permit they should check out our road conditions.

Facts:

Edgewood lane is an unpaved road

Mr. Fallon has never contributed to the traffic for his family or his customers

Mr. Fallon does not care about his neighbors putting up with his customers

Hannah herself is creating more traffic since she is the one running the cat rescue business and doesn't live on the 5050 Edgewood lane property

Sincerely, Ken and Ginny Craft. 530-228-7849

[Sent from Yahoo Mail on Android](#)

From: [kay.brey](#)
To: [Volenski, Dina](#)
Subject: Town Council Agenda 5b Fallon Site Plan Review
Date: Tuesday, March 17, 2020 11:25:55 AM

Kaylyn Brey
Joseph Giralico
5128 Edgewood Ln,
Paradise, CA 95969

We are against the permit approvals and building of Agenda 5b Fallon Site Plan Review for 5050 Edgewood Ln., Paradise, CA 95969.

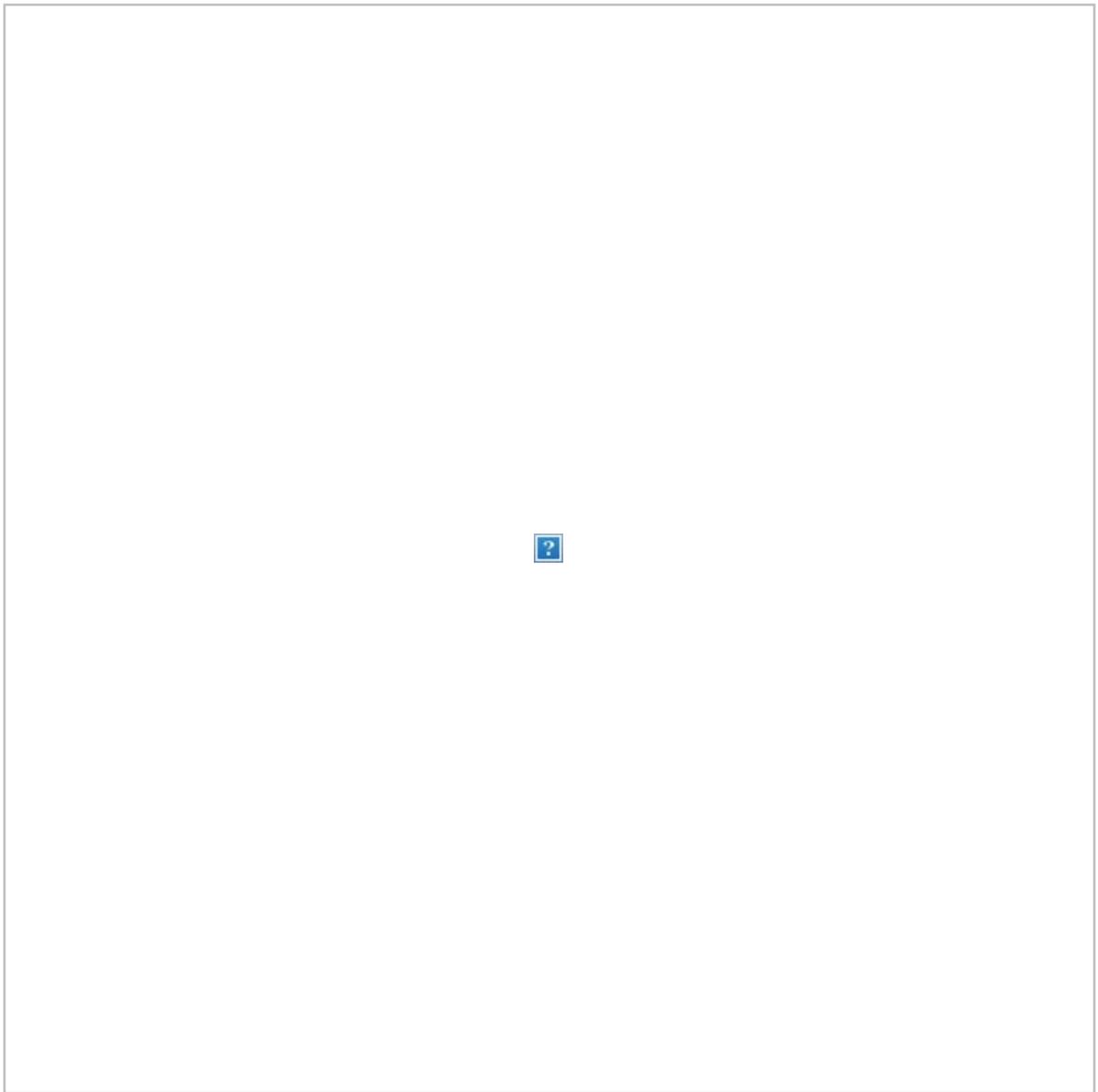
My name is Kaylyn Brey and I am a resident on Edgewood Ln. with my boyfriend (of 15 years) and our 2 year old daughter. My boyfriend has lived off and on Edgewood for the past 32 years. I have lived on Edgewood on our property for the past 6 years. We were able to rent the property before the fire and bought it shortly after the fire. We love our small, dirt, quiet, road. We definitely wanted to come back and try and help rebuild Paradise. We are writing this letter to you today in hopes that you deny the building of and permits for Agenda 5b "Fallon Site Plan Review Permit Application", we call it Cat Camp. I have a few concerns about road maintenance/cost, traffic and safety of the cats down our dirt road. I also have a statement from the secretary about the location of the business. I hope by the end of this letter you consider my concerns of having a business down Edgewood.

My first concern is road maintenance and cost. Before the fire of Nov. 8th, 2018, our neighbors and I would give Kenny and Ginny Craft (our next door neighbors) \$50-\$100 a year and they would supply the road with rocks and fix any pot holes caused by rain or cars. After the fire there have been more people going up and down the dirt road but there are only a few neighbors living back on their properties. The cost of the road to repair has gone up, has more traffic and less people to help maintain it.

My second concern is the traffic going up and down are "used to be" quite road. Since the Cat Camp at the Fallon residence we have had more cars going down our quiet, dead end, dirt road. Edgewood is a beautiful road to walk or exercise but with the recent traffic by Cat Camp we have refrained from doing so and just stay close to home. During the summer it gets very dry and dusty down Edgewood and many don't realize that (although slow on the road) 20mph is very fast down a dirt road and kicks up a lot of dirt, that then covers our houses/trailers and lungs.

Another concern I have is the safety of the cats at the end of Edgewood Ln. Since I have lived on Edgewood (6 years) we have been evacuated twice without issue and then there was Nov. 8th. Most of my neighbors were trapped on Edgewood and could not find a way to escape the fire and many lives were lost. My daughter and I were lucky enough to be in town already and boyfriend at work that morning. My question is, what will happen to the cats when the next evacuation or fire comes? Can they all be safely evacuated or will they be stuck or worse have the same ending that many neighbors and animals did on Edgewood Ln. November 8, 2018?

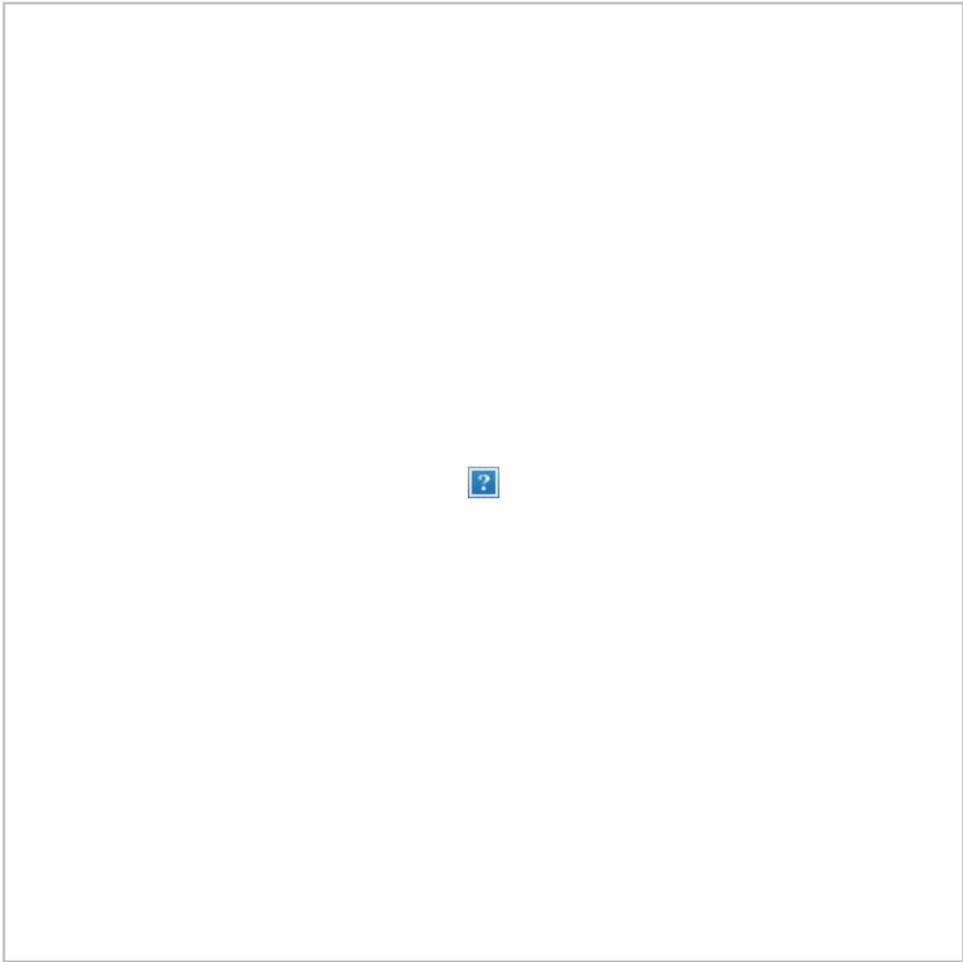
My final statement is a copy of a post written by the Secretary of Cat Camp, Hannah Braden. She states the the picture given bellow "we could go anywhere, we chose Paradise." This statement was written Friday March 13, 2020. So my hope here today is that this Cat Camp can find somewhere else more convenient to the people of Paradise and not down a quiet, dirt road where families worked hard to come back to.



Thank you for listening to all my concerns. My family and I love Paradise and we love Edgewood Ln. We appreciate the help that the Fallons and Cat Camp have given our community but they are unaware of the cost of living on this dirt road. We chose to rebuild Edgewood, We chose to rebuild Paradise. Please hear me and my neighbors, and do not let this Cat Camp continue due to cost/maintenance, traffic, and the safety of the cats.

Sincerely,
Kaylyn Brey
Joe Giralico: Property Owner of
5128 Edgewood Ln.

Bellow is a google maps picture of our property and the Fallon property where Cat Camp is located.



From: [Sue Laurie](#)
To: [Volenski, Dina](#)
Subject: Scheduled Planning Commission Hearing Item #5-B
Date: Saturday, March 28, 2020 2:09:18 PM

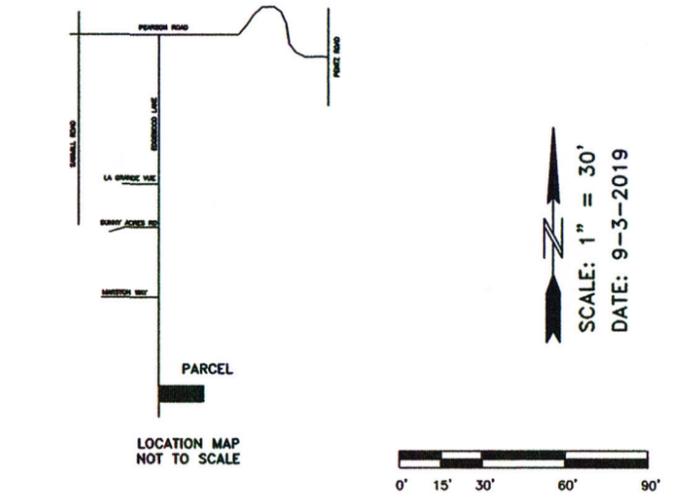
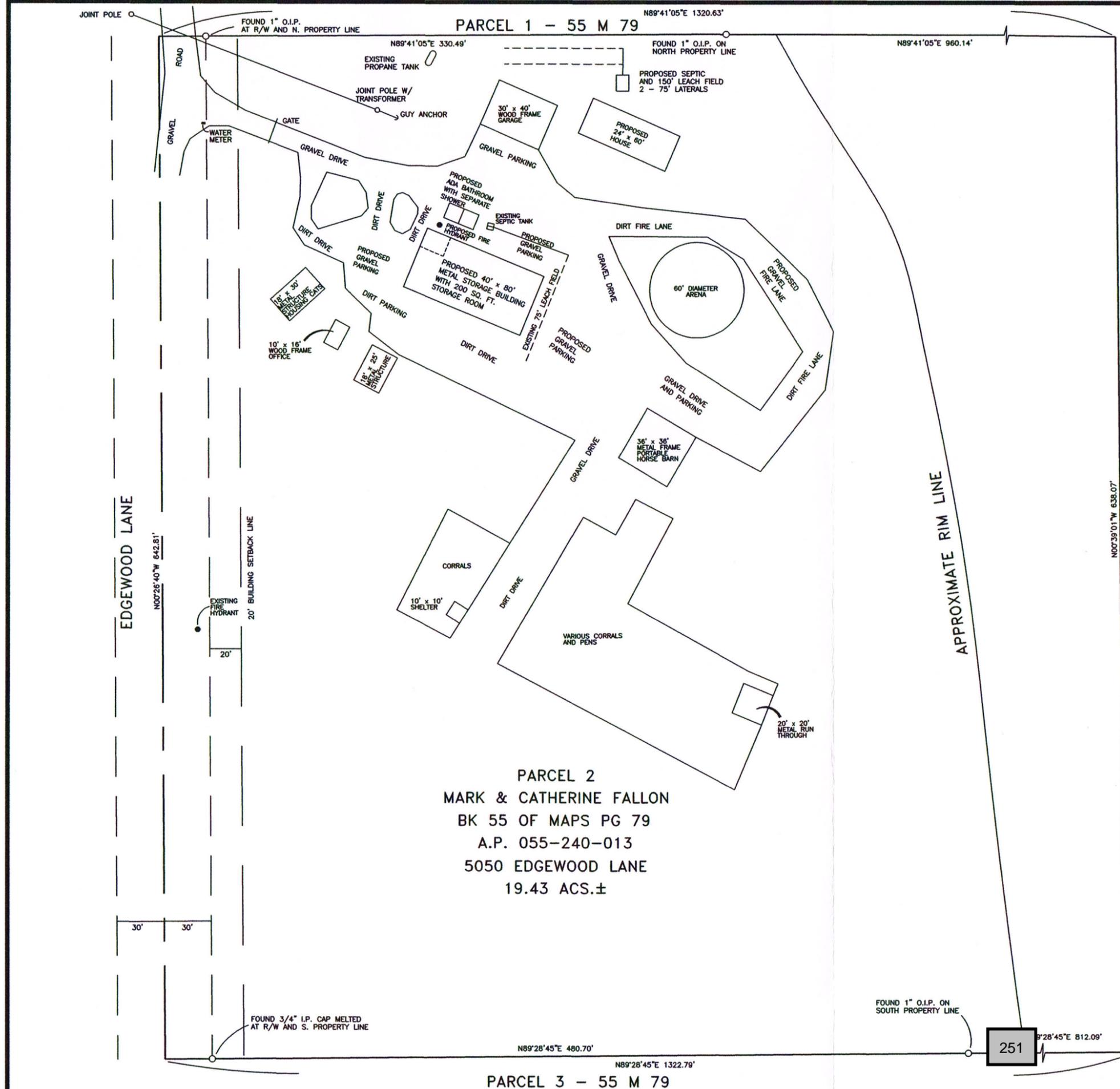
"Fallon Site Plan Review Permit (PL19-00208) Application"

We are property owners at 1598 Marston Way (APN 055-231-014) that has significant frontage on Edgewood Lane at about the 5100 block of Edgewood. We have concerns on how the proposed cat kennel facility will affect the access to the area and disagree with this plan:

1. Increased traffic on the lower section of Edgewood Ln. This is a private gravel road with single access from Pearson Rd (one way in and out). The cost of the base rock for maintenance of this road is paid by the property owners of the lower sections (those properties south of the pavement, a distance of less than a half mile) of Edgewood on a voluntary basis. The actual labor of the maintenance has been donated by primarily by 3 property owners (Craft, Laurie, and Jarocki) for the last several years (before the fire) and now rests with one property owner, Ken Craft.
2. Increased traffic of heavy vehicles as well as people driving too fast will tear up the road causing potholes that will need to be filled more often.
3. Dust from the road has always been a huge problem for the residents along the road. The people who live here are aware and are respectful of the dust issue and the road repair needs. Unfortunately, we can't expect the same of the non residents.

We believe this proposal is not in the best interests of the residents in the area that are most affected.

Bill and Sue Laurie
current home address: 2880 Dos Vistas Dr., Shingle Springs, CA 95682
tel: 1-530-672-1037



PARCEL 2
 MARK & CATHERINE FALLON
 BK 55 OF MAPS PG 79
 A.P. 055-240-013
 5050 EDGEWOOD LANE
 19.43 ACS.±

SITE PLAN MAP
 PARCEL 2 AS SHOWN ON THE
 PARCEL MAP FILED IN BOOK 55 AT PAGE 79
 IN SECTION 25, T.22N., R.3E., M.D.B.&M.
 TOWN OF PARADISE, BUTTE COUNTY, CALIFORNIA

FOR
 MARK & CATHERINE FALLON
 RICHARD R. ROPER
 LAND SURVEYOR
 ENGINEERS  SURVEYORS

530-532-7917
 166 ACACIA AVENUE
 OROVILLE, CALIFORNIA 95966
 SHEET 1 OF 1 SHEETS

SCALE: 1" = 30'
 DATE: 9-3-2019